SOUTHERN I EXTILE BULLETIN

VOL. IV

CHARLOTTE, N. C., FEBRUARY 6, 1913

NUMBER 23

Re-Organization

of

Old Mills

a Specialty

WHITIN AND KITSON COTTON MILL MACHINERY

WE HAVE furnished plans, specifications and engineering work for over one hundred and fifty cotton mills in the South. Have furnished machinery and complete equipments for nearly all of these mills, and for as many more designed by other engineers. Our large experience enables us to insure the very best results. A large majority of Southern mills use some of our machinery, many use it exclusively.

KITSON Improved Picking Machinery.

WHITIN Roving Machinery, with Patented Improvements.

WHITIN Cards, Drawings, Railways, Combers, Sliver and Ribbon Lap Machines, Spinning, Twisters, Spoolers, Reels, Looms, Quillers.

CRAMER Air Conditioning System for Humidifying, Ventilating and Air Cleaning.

Cleaning.

CRAMER Automatic Regulators for any make of Humidifying and Heating

Systems.

MISCELLANEOUS EQUIPMENT: Winding, Slashing and Warping Machinery; Card Grinders; Cloth Room and Finishing Machinery; Nappers; Dye House Machinery; Power Plants; Steam, Water and Electric Fire Protection, Electric Lighting, Humidifying Apparatus, Heating and Ventilating Apparatus, Shafting, Pulleys and Hangers, Belting and Supplies.

STUART W. CRAMER SOUTHERN AGENT

CHARLOTTE. N. C.

Complete Equipment for

New Cotton

Mills

OUR RINGS

Set the Standard for Quality

THERE ARE NONE OTHERS "JUST AS GOOD"



MIRROR SPINNING RINGS DRAPER COMPANY HOPEDALE, MASS.

THE MacColl Spooler Guide



will, with a much more open setting, remove slubs or bunches that would pass through other spooler guides.

Send for Special Circular

DRAPER COMPANY HOPEDALE, MASS.

SOUTHERN AGENT

J. D. CLOUDMAN - 40 S. Forsyth St., ATLANTA, GA.

Farbwerke-Hoechst

H. A. METZ & CO.

Aniline and Alizarine Colors, Dyestuffs and Chemicals

Sole Licensees and Importers of the Products of

FARBWERKE, vormals MEISTER LUCIUS & BRUENING Hoechst - on - Main, Germany

122 Hudson St., - New York, N. Y.
140 Oliver St., - Boston, Mass.
1418 Empire Building, - Atlanta, Ga
1418 Empire Building, - Atlanta, Ga
25 South Main St., Providence, R. I.
26 South Main St., - Chicago, Ill.
27 North Clark St., - Chicago, Ill.
28 Wellington St., - Toranto, Can

UP TO YOU TO BE UP-TO-DATE

In Bleaching, Dyeing, Finishing ASK

BOSSON & LANE

Works and Office

ATLANTIC, MASS

THE BRISTLE CLOTH STRETCHER



Saves Time Labor Money

Used by Leading Finishers throughout the country

AMERICAN FINISHING MACHINERY CO. 141 MILK STREET, BOSTON, MASS.

Manufacturers Should Look Up the Advantages of the

Metallic Drawing Rolls

Over the leather system before placing orders for new machinery, or if contemplating an increase in produc-tion, have them applied to their old machinery,

25 Per Cent. More Production Guaranteed.

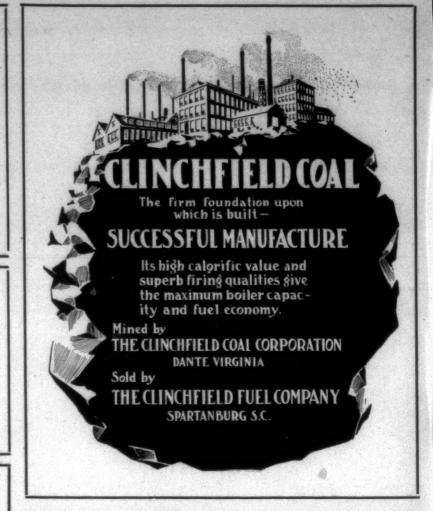
SAVES

Roll Covering, Varnishing, Floor Space, Power, Waste and Wear.

1-3 Less Weight Required

Write for Points Claimed, Also Prices and Particulars to

The Metallic Drawing Roll Co. INDIAN ORCHARD, MASS.

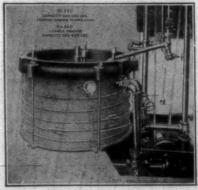


Economical Cotton Dyeing and Bleaching

In the Psarski Dyeing Machine

Saves Labor Saves Dyes Saves Drugs Saves Steam

Saves Water



Saves **Fibre**



Sulphur—Developed—Vat Dyes Done Equally Well

RAW STOCK DYEING—The cotton goes to cards in as la not rolled into balls and string

BLEACHING Bleached and washed PERFECTLY CLEAN—FREE FROM CHLORIN OR ACID.

31/2 hours to batch. Is not pounded and twisted into practically waste.

SKEIN DYEING No Boiling Out—No Tangles—Yarns are left Smooth and in perfect condition for winding, knitting, etc.

HOSIERY — Recommended size of machine does 300 pounds to batch, SULPHUR OR DEVELOPED BLACKS. It is not Roughed—No Singeing required—No Sorting—No Damaged.

15 to 20 per cent Saving in Drugs

The Psarski Dyeing Machine Co. CLEVELAND, OHIO

3167 Fulton Road WILLIAM INMAN. Agent

864 Newport Aven Milwaukee, Wis.

R. D. BOOTH, Agent 118 Ocean Avenue Atlantic City, N. J.

TEXTILE BULLETIN

VOL. 4

**Includes Mills Under Construction

CHARLOTTE, N. C., FEBRUARY 6, 1913

NUMBER 23

Southern Mill Enlargements for 1912

Compiled by Southern Textile Bulletin*

Compiled	by Southe	rn Textile Bulletin*	
Spindle Increase For 1912.			Spindles.
		Franklin Cotton Mills, Concord, N. C	12,000
Alabama.		J. Frederick Houston, .Co., Cumberland, N. C	800
	Spindles.	Monarch Cotton Mills, Dallas, N. C	2,000
West Point Manufacturing Company, Langdale,		Delburg Cotton Mill, Davidson, N. C	416
*Eva Janes Mills, Sylacauga, Ala	40,000	Sterling Cotton Mills, Franklinton, N. C	10,000
	50.000	*Armstrong Cotton Mill Co., Gastonia, N. C	3,000
Total for Alabama	50,000	Flint Manufacturing Co., Gastonia, N. C	1,500
Arkansas		Gray Manufacturing Co., Gastonia, N. C	512
Arkansas	None	Minneola Manufacturing Co., Gibsonville, N. C	1,000
Georgia,		Granite Falls Manufacturing Co., Granite Falls, N. C	2,000
	Spindles.	Proximity Manufacturing Co., Greensboro, N. C	5,000
Columbus Manufacturing Co., Columbus, Ga		Harriett Cotton Mills, Henderson, N. C	9,000
Hamburger Cotton Mills, Columbus, Ga		Henderson Cotton Mills, Henderson, N. C	8,000
Meritas Mills, Columbus, Ga		High Falls Maunfacturing Co., High Falls, N. C	416
Swift Spinning Mills, Columbus, Ga		*Highland Cotton Mills, High Point, N. C	8,000
Covington Mills, Covington, Ga	A CONTRACT OF THE PARTY OF THE	Cannon Manufacturing Co., Kannapolis, N. C	25,000
Elk Cotton Mills, Dalton, Ga		Dacotah Cotton Mills, Lexington, N. C	° 1,000
Imperial Cotton Mills, Eatonton, Ga		Lowell Cotton Mills, Lowell, N. C	6,000
Fort Valley Cotton Mills, Fort Valey, Ga		Peerless Manufacturing Co., Lowell, N. C	
Mary Lelia Cotton Mills, Greensboro, Ga		Dresden Cotton Mills, Lumberton, N. C	
Unity Spinning Mills, LaGrange, Ga		Jennings Cotton Mills, Lumberton, N. C	
Bibb Mfg. Co., Macon Ga	. 17,500	Marion Manufacturing Co., Marion, N. C	
Manchester Manufacturing Co., Manchester, Ga	. 1,200	Mayes Manufacturing Co., Mayesworth, N. C	
Milstead Manufacturing Co., Milstead, Ga	. 416	Mims Manufacturing Co., Mount Holly, N. C	
McIntosh Mill, Newnan, Ga	. 2,000	Armon Manufacturing Co., Mt. Island, N. C	
Newnan Cotton Mills, Newnan, Ga	. 13,000	Norwood Manufacturing Co., Norwood, N. C	
Anchor Duck Mills, Rome, Ga	. 2,728	Raeford Power & Manufacturing Co., Raeford, N. C	
Strickland Cotton Mills, Valdosta, Ga	. 1,600	*E. A. Smith Manufacturing Co., Rhodhiss, N. C	
Villa Rica Cotton Oil Co., Villa Rica, Ga	. 2,500	Rosemary Manufacturing Co., Rosemary, N. C	
	Control of the last	Hannah Pickett Mills, Rockingham, N. C	
Total for Georgia	. 94,754	Ledbetter Manufacturing Co., Rockingham, N. C	
Kentucky.		Barringer Manufacturing Co., Rockwell, N. C	
· Kentucky	None	Kesler Manufacturing Co., Salisbury, N. C	
Rondon,	Tione	Sanford Cotton Mills, Sanford, N. C	
Louisiana.		Ella Manufacturing Co, Shelby, N. C	
Louisiana	None	Vass Cotton Mills, Vass, N. C	
		Wadesboro Cotton Mills, Wadesboro, N. C	KANDONIA DO DODONIA
Mississippi.		P. H. Hanes Knitting Co., Winston-Salem, N. C	
Yazoo Yarn Mill, Yazoo, Miss	. 1,444	an an armiting Co., it moves below, it. Cities in the	1,300
Total for Mississippi	1 444	Total for North Carolina	946 999
	. 1,444	Total for North Carolina	240,988
Missouri,		Oklahoma.	
Home Cotton Mills, St. Louis, Mo	. 1,000	Oklahoma	None
Total for Missouri	. 1,000	South Corolling	
	. 1,000	South Carolina,	17.000
North Carolina,		Toxaway Mills, Anderson, S. C	
Wiscassett Mills, Albemarle, N. C		Hermitage Mills, Camden, S. C	
Majestic Mills, Belmont, N. C	2,400	Norris Cotton Mills, Cateechee, S. C	. 400
*Baldenboro Cotton Mills, Bladenboro, N. C	. 8,208	Cherokee Falls Manufacturing Co., Cherokee Falls, S. C	
J. M. Odell Manufacturing Co., Bynum, N. C	. 800	Alice Mills, Easley, S. C	
Cedar Falls Manufacturing Co., Cedar Falls, N. C	. 416	Glenwood Cotton Mills, Easley, S. C	
Durham Hoslery Mill, Chapel Hill, N. C	8,000	Fountain linn Manufacturing Co., Fountain Inn, S. C	
Highland Park Manufacturing Co., Charlotte, N. C	8,000	Brandon Mills, Greenville, S. C	
*Johnston Manufacturing Co., Charlotte, N. C	5,000	Carolina Mills, Greenville, S. C	12,000
*Thayer Manufacturing Co., Charlotte, N. C		Foe Manufacturing Co., Greenville, S. C.	
Brown Manufacturing Co., Concord, N. C	800	Woodside Cotton Mill, Greenville, S. C	
*New mills.			No.

(Continued on Page 8)

Ivey's Carding and Spinning

Copyrights purchased from G. F. Ivey by Clark Publishing Co.

(Continued from last week) GENERAL INFORMATION.

The length of spinning frame is found by multiplying one-half the number of the spindles by the space, and adding 2 ft. 3 ms. The width may be 36 ins. or 39 ins. as is desired. If the space is ample, a 39-inch frame is preferable, as the bands are longer, and have a better bearing surface on the whirl. English frames are much longer than they are isually made in America, often having 400 spindles. They usually have two cylinders 10 inches in diameter, and are frequently belted in the center. Instead of clearer boards, they have clearer rollers on the top rollers, similar to a mule. These rollers lie between the front and middle

roller, and are turned by friction.

Separators are called anti-ballooners in England, and have not attained the degree of excellence they have in this country. Ballooning is not an unmixed evil, but helps turn the traveler. If the yarn is allowed to halloon, a heavier traveler can be used, which for several reasons is desired. Among some mill men there is a tendency to dispense with separafors, especially with fine yarn, by making the space between the spindles greater. For filling frames it is customary to have this extra space and to dispense with separators. This is not the result of any special design, but is merely incidental. The cost of a spinning frame is based on a 2 3-4-in. space, and for all numbers, except very coarse ones, the ring is 1 1-4-ins., allowing ample room on each side.

About 1 1-4 spindles occupy a square foot of floor space, so that 5,000 spindles would occupy 4,000 square feet. Spinning frames are sold at what is known as a base price per spindle. At present this price is \$3,25. Separators are 10 cents extra. Shell front rollers 5 cents, and Dickson's saddles 2 cents. Extra heavy spindles or wide space is also extra. There is also an extra charge for boxing of 2 per cent of the total cost, includ-

ing extras.

Spinning frames are driven with any size pulley or belt desired. We do not think that less than a 12-inch pulley or a 3-inch belt should be used for a frame of over 200 spindles. It is true, they often have smaller dimensions, but the best has to be kept so tight that it quickly wears out,

and also wears the bearing.

The power required to drive spinning frames depends greatly upon the speed, and increases at a greater ratio. The Draper Company has made exhaustive experiments, and has found that a horsepower will run 137, 94, 76, and 67 spindles at 7,000, 8,000, 9,000 and 10,000 revolutions respectively. Of this power the bare spindle absorbs more than half the various elements being as follows:

Cylinder, bands and bare spindles	54	per cen	It.
Average yarn load	16	per cen	t.
Average traveller pull	22	per cen	it.
Rollers, traverse and gears	8	per cer	ıt.
		per cer	at.
	100	per cer	at.

For ordinary cotton the front rollers are 1-inch in diameter, and the middle and back 7-8 inch. The front roller is made larger partly to support the heavier weight and partly so that it does not have to turn so fast to make the surface speed. For Indian cotton the front roller is 7-8 inch, as the cotton is so short the rollers could not get close enough together if they were of the usual size. For some purposes the front rollers are

made 1 1-16 inches and 1 1-8 inches in diameter.

In England, filling frames or mules are always made to give yarn the There is some science in this, as the fibers have been twisted the opposite way in previous processes, the tendency is for them to remain that way. When the twist is reversed, the fibers will not lay so close together, and the yarn is what is called oozy, and gives a softer feel to the cloth. It is also claimed that the fibers being laid in a different way gives the yarn a different color, owing to the direction in which the light strikes it. It is a well-known fact in weaving that stripe effects are made in cloth by having right and left-hand twist alternate.

CHAPTER VI.

MULE SPINNING.

About one hundred and forty-three years ago, or to be more exact, between 1764 and 1768, James Hargraves invented a spinning machine called the spinning jenny. It consisted of a row of vertical spindles, driven by bands from a cylinder, which was driven by a large band from a hand wheel. The roving was drawn away from the spindles by a slide. and when drawn out twist was put in by turning the spindles. The slide was then reversed and the twisted yarn was wound on the spindles.

About the same time, Arkwright invented a spinning machine, which on account of its being driven by water power, was called a water frame. It had a set of rollers for drawing out the roving, and the yarn was wound a a bobbin by means of a flyer. About ten years after this, Samuel Compton invented a machine which retained the drawing-out and wind-

ing features of the jenny, but had the rollers of the water frame. From the fact that it retained the features of both machines, and was in this respect a hybrid, it was called a mule, a name which it has retained ever The first mules were called hand mules ,not because they were run by hand, but because many of the motions now done automatically were then done by hand. On this account, a very skillful man was required to attend to the various details, and only one machine could be run by an operative. Many successive improvements were made, until now all the motions are automatic, and the machine is known as a self-acting

The action of the mule is very complex, or rather the mechanism. Three lines of rollers draw out the roving just as in a spinning frame. Here the similarity ceases. When the rollers begin to deliver the roving the other end is held by the spindle, which is only a few inches from the rollers. As the roving is delivered, the carriage holding the spindles gradually recedes for about five feet, the spindles in the meantime rapidly revolving, thereby putting in the twist. The rollers do not deliver the yarn quite as fast as the carriage recedes, and an additional draft takes place, which is known as the gain, and is usually about three inches. This action, as was explained in the previous chapter, has a very important bearing on the quality of the yarn. When the carrige stops, the rollers stop delivering the yarn, but usually the spindles run a little longer and complete the twisting process. This twisting process contracts the yarn, and if it is very fine will break it, unless there is a mechanism to compensate for the contraction. There is now from 60 to 66 inches of twisted yarn between the spindles and the rollers, and also a few inches wound in a jo doj aqi pur doo aqi jo asou jo doj aqi uaamjaq sajpuids aqi uo rejids the spindle. In order to uncoil this, the spindles run backward a few revolutions, after which the carriage starts back towards the rollers much more rapidly than it came out. While this is taking place, the spindles are slowly turning and winding the slack yarn, which is guided by two tight wires stretched the entire length of the carriage, and known as the fallers and counter-fallers. The whole process from the time the carriage leaves the rollers until it returns, is called a "draw" in England, and a "stretch" in this country.

A very little reflection will show how complicated the machine is. The rollers must stop at exactly the right time. The carriage motion must be square with the head-stock. The backing off must be exactly right, and the filler motion must be suited to the shape of the cop, or the yarn may he stretched on one hand or kiked on the other. The problem is somewhat similar to that of winding roving on a bobbin constantly increasing in diameter, for of course the base of cop is larger than the apex. Then, too, the base is wound on a cop tube, which is usually a true cylinder, and after the base is wound provision must be made for the taper of the spindle. The spindles, too, have varying speed. As they begin to revolve, the speed is gradually accelerated, and is diminished as the carriage nears the beam. Taken as a whole, the mule is probably the most complicated machine in existence, besides which a Linotype or Northrop loom is a mere toy. Were it not for the fact that such a vast industry depends upon it, it would never have received the attention necessary for its present development. The very fact that so many are concerned in its success, has given it the benefit of many inventors. Were its manufacture a monopoly, it is safe to say it would not have attained its present degree of excellence, but there always being at least half a dozen large machine builders at work on them, a great many inventions are tried where one meritorious one is adopted.

CALCULATIONS.

The calculations in mule spinning are more complicated than in ring spinning, and there are a number of methods of arriving at the same result. We give below what we consider the simplest methods for the most

necessary calculations.

Draft.—Where very short cotton is being spun, there is no gain in the carriage, and the calculation is exactly as for ring frames. Driven

Driving. Diam. of front roller 8 (eighths) Back roller gear 60. Crown gear 120.

Diam. of back roller 7 (eighths Draft gear 45. The front roller gear 20.

 $8 \times 60 \times 120$ =9.14=Draft. $7 \times 45 \times 20$

Draft constant draft multiplied by draft gear.

To find the draft when there is a gain in the carriage: If the roller delivery is 60 ins., and the total stretch is 64 ins., making a gain of 4 ins., the draft is evidently 14-60, or 1.066. We found when considering the draft in the drawing frame that the total draft is the product of the separate drafts, so in the above example the total draft is 9.14×1.066=9.74.

To find the draft in the rollers when the numbers to be spun, the

gain, and the hank roving are known:

Constant + Draft = Draft Gear.

COTTON MACHINERY SPECIALISTS

POTTER & JOHNSTON MACHINE CO., Pickers and Revolving Flat Cards

- Pawtucket, R. I.

WOONSOCKET MACHINE & PRESS CO., - Woonsocket R. I.

FALES & JENKS MACHINE CO.,

Pawtucket, R. I.

Ring Spinning and Twisting Frames

Drawing and Roving Frames

EASTON & BURNHAM MACHINE CO.,

Pawtucket, R. I.

Lowell, Mass.

Spooling and Winding Machinery

T. C. ENTWISTLE CO.,

Warping and Beaming Machinery

J. H. MAYES, Southern Agent : : : : :

Charlotte, North Carolina

1112 INDEPENDENCE BUILDING

Table	of I	Length	and	Weight	of Cons

uge of Mule	Length of Cop	Weight of C	op Gauge of Mule	Length of Cop	Weight Co
2	8	1200 grs		6	350
1%	8	1000 grs.	11/4	5%	30
11/2	71/2	600 grs	1 3-16	- 5%	25
1%	71/4	500 grs	. 1%	5%	20

Rule.—Subtract the gain from the total stretch. This gives the amount to be delivered by the rollers. Multiply this by the numbers required, and divide by the product of the stretch multiplied by the hank roving.

Example.—Number to be spun 40's, hank roving 5, stretch 64 gain 4 ins., what draft is required in the rollers?

64-4=60 =7.05=Draft.

Table of Draft Constants. Mason Mule.

Inch. III	Inch.
Diameter of Front Roller 1 Diam	
Diameter of Back Roller % Diameter	eter of Back Roller 7%
Front Roller Gear 30 Front	Roller Gear 30
Change Gear Change	ge Gear
Change Gear Change Crown Gear 110 Crown	n Gear 130
Back Roller Gear 70 Back	
Constant293.40	Constant346.58
To find the number of stretches in a	cop:

Rule.—Multiply the weight in grains by the number of yarn and 840, and divide by 7,000. This will give the number of yards in a cop. Multiply this by 36 for the number of inches and divide by the number of inches in a stretch.

Example.—How many stretches in a cop of 30's made on 1\%" space.

Referring to table, we find that the cop will weigh 600 grains.

600×30×840 =2160 yards. 7000 2160×36=77760 inches. =1215 stretches.

To find the change gear on builder screw

thread in use on the screw.

Table of Constants for Ruilder Gears, Mason Mule

	weeken on complements	A VA APCERACECE	CACCARDE MAGISTRA	ATA CALLO
Space of Mule	Threads in Use	Weight of Cop	For 60 Inch Stretch	For 64 Inch Stretch
2	52	1200	1,69	1.56
1%	52	1000	1.38	1.29
11/2	. 52	600	.83	.78
1%	52	500	.55	.52
1 5-16	52	350	.48	.44
11/4	52	300	.42	.39
1 3-16	. 52	250	.34	32
11/8	52	. 200	.27	.26
Constan	nt × No. of yarn=G	ear.		

TWIST

The twist in mule- spun yarn varies greatly according to the purpose for which it is intended and also according to the quantity of cottton. As we stated in a previous chapter, the usual custom is as follows: Hosiery yarn, the square root of number \times 2.50.

Yarn for doubling, the square root of number × 2.75.

Filling yarn, the square root of number × 3.25.

Warp yarn, the square root of number \times 3.75.

When the mule is running, the easiest way to get the twist is to get the speed of spindles by means of a speed indicator on cylinder shaft. This number divided by the inches in a stretch gives the twist being put in. When it is desired to calculate the twist, it becomes a very difficult matter to make a universal rule. In fact, such a rule is impossible, for various makes of mules have different arrangements for driving the spindles and rollers. The following is the method of gettting the twist for a Mason mule where the rim pulley is at the back, and will apply to any mule with similar arrangement of gears:

Example.—Diameter of rim pulley, 15 inches; diameter of cylinder, 6 inches; spur portion of spur and bevel compound gear, 50 teeth; bevel sear on front roll sleeve, 48 teeth; diameter of spindle whirl %"; diameter of pulley on cylinder shaft. 10 inches; speed change gear, 30 teeth; bevel portion of spur and bevel compound gear, 24 teeth; circumference of front roller, 3.1416 in.

15×6×50×48

 $.75 \times 10 \times 30 \times 24 \times 3.1416$

This is the theoretical twist, from which deductions must be made for size of bands and also slip of bands.

To change the twist gear when changing numbers, the rule is the same as for other machines, viz., square present gear, multiply by num-Rule.—Divide the number of stretches in a cop by the number of bers required, divide by the number being spun, and extract the square root of the quotient.

Practical and Efficient Spinning

ceived and several more are expected. These articles will be published in the order received.

No article will count in the contset which is received after Feb. 15th, and we hope that all who expect to enter the contest will send in their articles before that time.

One Thrown Out.

We have already thrown out one article, which we received, because we found that it was copied almost entirely from Ivey's Carding and Spinning. No article of which any material portion is copied from any book or previously written article will be considered in the contest.

Number One.

RST, we will take the over-seer for a starting point, because if he is a success-ful spinner he is, and must all as a be, the head of his depart-ment. He should be a level-headed ment. He should be a level-headed man, slow to anger, and always ready to answer all questions of any importance. We find that it takes more experience to manage help in the spinning room than in any other department. And why? Because in the spinning room practically all of the help are children and these are of all kind and classes good and bad, bright and ignorant It takes years of experience and study to learn to manage help, and some men never acquire the ability, especially in the spinning room. If some men never acquire the ability, especially in the spinning room. It is certain that you cannot take a child's head and make a grown person's out of it. Remember that they are only children, with childish ways and deal with them as children in teaching them their duty.

The overseer should select a good bright young man for a second hand and then keep in touch with him at all times and see that he stays on his

all times and see that he stays on his See that he has the belts or tight pulleys and that he is right behind his section men, be-cause there are many section men in this day and time and are only looking for stopping time, pay days be-

and Sundays.

In the spinning room we find the spinning frames. These spinning machines receive the roving from the card, and drafts this roving from 1 inch to 10 and 14 inches in from 1 inch to 10 and 14 inches in length, and at the same time twists it into yarn. Now let me say right here that to run a spinning room the overseer should be a good practical man who understands the frames and their operation. Books are all right, but not in the spinning room ning room.

Drafts.

I do not believe in over 11 incher for No. 30s warps double roving and not over 12½ inches for 40s filling 'ny practical spinner knows that the longer the draft the weaker the

Contest Began.

yarn will be and bad running work is sure to follow. Given good smooth roving and the above draft a good spinner should see that his frame is properly geared up. The cient Spinning." Up to the present time fourteen articles have been received and several more are expect—

time fourteen articles have been received and several more are expect—

The intermediate gear between the The intermediate gear between the middle and back roll gear should be set close in the gear on both the middle and back roller gears be-cause if these gears are not set care-fully you will certainly have un-

fully you will certainly have uneven or cut yarn.

For 30s and 40s made from ordinary cotton I want Dixon saddles both front and back, with weight on all three rolls. For 50s to 80s on long staple cotton I want Dixon Lubricating saddles which only put weight on the front and back rolls Levers should be set on a perfectlevel so that they can raise the weight with ease when necessary.

Oiling Ton Bolls.

Oiling Top Rolls. The top rolls should be oiled wel and too much care cannot be taker with a drip oil can. Only the middle and back top rolls should be oiled once per week on 30s and 40s. The front rolls should be oiled every day. The front top roll should cleaned up three times a week. I steel rolls should be cleaned once a week and taken from the stands and cleaned thoroughly at least once

The twist for ordinary cotton The twist for ordinary cotton to make 30s warp, I think, should be 2 7to 28 turns per inch with a speed on the front roll of 108 revolutions per minute, 2 3-4 gauge, 1 5-8 No 2 flange ring, 6 inch traverse, and Rhodes-Chandler separators. At present, I am running 1 3-4 inch ring, 7 inch traverse, 1 3-8 ring, No 2 flange and 2 3-4 inch gauge.

For 40s filling I use about 25 turns

For 40s filling I use about 25 turns per inch with a speed on the front roll of 110 R. P. M., 6 inch traverse. 1 3-8 inch ring, No. 2 flange, 2 3-4 inch gauge, without any separators

Doffing.

Doffing is one of the most important features in a spinning room Bad doffing and end piecing is the worst thing that I can mention. The doff boy will tear down a number of ends, then the end piecer comes along in a burry trying to keep up and trouble follows. Perhaps, the frame has been running a long time without being pieced up and the rolls are all choked up. The pieces will leave down some of the ends and this makes trouble for the spinner, and there is a loss in produc-tion. The doffer boy will also lap ends. This goes to the spooler roon and there is bad work, waste to be and there is bad work, waste to be cut off and cut and ruined bobbins. On filling the doffer boy will lap ends and run the thread up high on the quills. This goes to the weave room and when the filling runs down two-thirds of it, it wil' break with a long end that will raise the filling fork several times before it stops the loom and makes a thin place in the cloth. This goe to the cloth room and makes a loss there. The writer has long since done away with end piecers. Each doffer must do his own end piecing just as soon as the frame is started just as soon as the frame is started and then if he breaks down a lot of ends he must do his bad worl over. I only allow them to stop

Cleaning Up Spinning.

I do not believe in fan rags of pasteboard rags in a spinning room for this means gouts in your yarn Rails should be brushed off once ar hour and roving creels wiped three times a week. Thread guides should be run out at least once every hour for dirty guides means bad running spinning, besides baking gouts. Crectops should be wiped off once a day and the floor kept clean at all times A ditry floor in a spinning room certainly is a sight to behold.

Fast running parts, such as pulleys, gears, front stands and cylinders should be oiled twice each day

Tempearture.

Temperature plays a very impor temperature plays a very important part in a spinning room, both as to even numbers and good running work. Keep the dry side of the thermometer about 75 or 80 degrees and the wet side about 70 to 75, or as near as you possible can 75, or as near as you possibly can If the heat goes up to 85 or 90 oper up your top transoms to let the warm air out and keep the humidity in your room as stated above To have good running work and this is very essential—the carder should weigh 8 to 16 hobbins of roving and bring them to the spin-ning room. The spinner should spin at least 120 yards from them and weigh them very carefully sending the carder a copy of the weights. It is often a good practical idea to pick out a batch of bobbins in your room and weigh them at random.

We hear a great deal said about travelers. The writer has had a good deal of experience on 80 to 80s both single and ply yarn and No. 2 flange rings, and some experience with almost all makes and varie-ties of travelers. I am often per-suaded to believe that there is not so much in the make of the traveler as there is in the temper, the eler as there is in the temper, the style, shape and circle. These are the most important features to look after as on them depends the sizes and flange ring you are using Now for the warp. I get the bes' results from a wide R. P. traveler 1 1-4 inch circle, No. 2 flange ring For filling I use a narrow rolled R. P. traveler, 1 1-2 inch circle and a No. 2 flange ring.

No. 2 flange ring. A traveler that hugs the ring too tight will cause a friction on your yarn. By a careful observation you will find the end wire cut down at the ring. Now the overseer must be his own judge for the weights of his travelers because the size of the ring and the length of the traverse has a green weights. Waste on Floor. great deal to do with the

A good spinner will teach his bills.
men to be careful about throwing To
white cotton on the floor, as this is and
a great loss. Not long ago I tried thou white cotton on the floor, as this is a great loss. Not long ago I tried a family of spinners. I passed through the room, and behold, their alleys were full of white cetton I told one of the girls not to throw the cotton on the floor and she said that she had always thrown her lap waste on the floor. What about that. Mr. Spinner?

Setting Spindles and Guides

Setting Spindles and Guides.
Spindle setting is another important thing. A spindle should be se in the center of the ring and the guide wire set in the center of

Roving men should place the roving in two neat piles, two layers high on each frame, leaving an opening in the middle and on each end of the frame for the empty running bothers.

Thursday, Sprand

Traverse Speed.

Traverse Specu.

Here is a point that I might mention as it may be helpful to some one. A great deal has been said about which is the best way to drive the traverse. I drive my traverse, up fast and down slow. Why? drive the traverse. I drive my traverse up fast and down slow. Why? First, because up and down is away from the delivery of the front roll and does not pull your yarn so hard. Second, when the traverse is going up fast it is coming up and meeting the delivery of your yarn. This can easily be done by reversing the heart wheel

Spooling and Lapping.

spooler tender should be very careful to tie all ends and not lap them and you must be sure to see she had pulled the slack out of the yarn, when she ties every end so that it will not kink up. This kink, if sized there, will stop a loom every time where a stop motion is used on the loom. If not stop motion is used it may break out as a

Warping.

Now we have come to the machine before yarn is size last Now we have come to the last machine before yarn is sized or dressed. A good, careful warper tender means a great deal to good running weaving. She should take pains in getting up the end of the beam so it will not make a lap on the slasher. Lans on the slasher. the slasher. Laps on the slasher mean loose ends in the weave room. So, Mr. Boss Weaver, I will turn it over to you now. Johnnie.

Number Two.

O run a spinning room suc-cessfully, the spinner must make friends with the carder, and between them get the best roving possible. No spinner can run his room successfully without good roving. The draft should be as short as will draft should be as short as will allow good running work. The twist should be in accord with the grade of stock being used. This thing of a "standard twist" will make waste and not yarn. Spindles, rings and thread should be set right at all times, and frames kept lined and leveled. lined and leveled.

The steel rolls should be in line clean and set for the stock being run. Top rolls are very important and should be well covered and not allowed to run too long. A great many spinners make poor yarn and have bad running work because they are trying to keep down roller

Top rolls ought to be kept clear and as free from oil as possible though the bearing should have oil enough to run lightly. Speed is another very important thing. Some spinners say "I am running my rolls faster than the table set down by the machine builder and making big production," while at the same time they are making a large amount of lap waste, their work is running bad and the number of pounds of yarn produced does not come up to the production of the man who is running a little under the table speed to suit the condition he has to meet. Top rolls ought to be kept clear

My idea is to work out the traveler which will run best on the work you are running. All machinery, the floor, and everything about the room should be kept clean and bright. The oiling should be done regularly with the best oil you can buy

Help.

Much has been written in these columns about help and most of it has been good. We all know that the spinner has the worst end of the help question, on account of the young ones in the spinning room. The spinner should be a sober, moral man, kind and pleasant with the help, but "firm as a rock." He should tell his help pleasantly what he wants done and then see that they do it. If they do not obey, let them go and there are usually plenty of good people who want to work ty of good people who want to work in a good spinning room.

Above a'l things the spinner must stay on his job. No man can run a room and spend a good part of his time in an office, or talking to every one around the mill and out 8-2-13.

Number Three.

I have had practical experience as a spinner and will try to give the best ideas I have about it. When a go into the spinning room at 5:45 a.m., the first thing I do as I enter the does it to notice the shafting a. m., the first thing I do as I enter the door is to notice the shafting and see that no counter belts are off. Then I place my help and have everything in full operation by 6

Efficiency means the road to suc-Efficiency means the road to success. An overseer to be successful must first know the weak points in his machinery, and how to adjust them to produce good running work. He must be firm in his conversation regarding any business transactions concerning his room and those employed there. I do not consider an overseer competent who has to depend on his second hand and section men. The little things in a spinning room are the hand and section men. things in a spinning room are the things which count. An overseer cannot take good roving and produce a good yarn if he does not understand his machinery.

I will give a few points on things which makes bad running work. Take the creek to start with. Always see that your skewer sets are all in, for if a skewer set is out or broken, the section man will come along and sharpen the skewer to make it run, which takes the are lost simply from the lack of stretch out of the roving. If the experience. Travelers run by cirskewer does not turn freely when cles, from 13-4 to 3 inches. A 3 a bobbin of roving is being drawn inch traveler may be put on and

Some spinners have a great many to the rolls, it will take the stretch cause the work to run well even ery does not get dirty if the spinideas about the weight of travelers out of the roying every time and where the rings and guides are of dies are plumbed and the guide
make uneven yarn. As to the draft, from 1-16 to 1-8 inch. But what wires set. out of the roying every time and where the rings and guides are of make uneven yarn. As to the draft, from 1-16 to 1-8 inch. But what do not draw over 11.60 on any num-would be the result with a 1 3-4 ber, that is, where the yarn is made of double roving. I always draw 10 where the card room can keep up. I find in most of the fine yarn mills that the card rooms cannot keep up drawing from 10.80 to 11.60. When you go over 11.60 you are not spinning a good quality of yarn. Cut it to 10 if the management will let

Rollers should be Rollers should be covered with good grey flannel with a heavy cushion. Cots should be made a fraction smaller and drawn tight. It is a good policy to see the roller coverer break one occasionally when he is covering them. Use English skin and make a good smooth lap. Have the steel rolls polished and keep off all burrs, as this will keep the roller cost down have a gauge for different staples of cotton and set your rolls acof cotton and set your rolls ac-cordingly. Do not run too much twist in the roving. If the rolls are set too close and the roving twisted hard the yarn is sure to cockle. See that there is uniform weight on the rolls, and that the levers do not rub the front steel roll. Keep the steel rolls clean so as to prevent gouts from going through with the

overseer should require his second hand to see that every section man has charge of as many frames as he can attend to properly and that he gives the frames his close attention.

In regard to speed, I think that a In regard to speed, I think that a medium speed is best. Of course speed depends on conditions, such as humidity, draft, travelers used and the like. You can run higher speed on a short draft than on a long one. The same is true of cotton. If you are running good cotton you can put in less twist and get good strength. You have to put in more twist for poor cotton and get good strength. You have to put in more twist for poor cotton and therefore cut down the front roll and lose production. Speed is also governed by the length of the traverse, the size of the ring, etc. On the same number of yarn, higher speed can be run on a short traverse and a small ring than on a long traverse and a large ring. Of course fine numbers are supposed to be spun on a short traverse and a small ring, and coarse numbers on a long traverse and large ring

inch traveler? It would bind in the circling, the rings soon wear sharp like a knife and cut the ends down, cut the fibres out of the yarn and make it uneven and weak Many travelers would be lost in this way. A medium circle traveler is the proper traveler to use. First have the spindles plumbed top and bottom and the guide wires set. This will kill the friction of the traveler and give a nice, even bal loons when the ends run to the top and best of all it will save the mill and best of all it will save the mill money and prolong the life of the rings. Have the separators so as to center between the rings and wher the traveres runs to the top, the separators will center the guide board. Separators should be set out even with the rail so as to prevent ends from hallooning around vent ends from ballooning around and clapping together. The best policy, as I said before, is to have the rings and guides in the pink of condition. It will enable you to run a heavier traveler and stop the good from claying together. end from clapping together, which loses travelers.

The bands and spindles are the next problem to solve. I have been in spinning rooms where they run every size band from the size of a finishing line to the size of a plow line. Brather overseers have your line. Brother overseers, have your bands made of roving and have them uniform so as to fit in the groove of the whirl. Do not allow groove of the whiri. Do not allow your band boys to split the band too far down. Have it arranged so that when the band is drawn up to be tied it will split itself in the drawing up. Tie a flat knot and you will get the full surface of the band Have the spindles well oiled with a uniform, band, and with well oiled. uniform band and with well oiled spindles you will get the full benefit of the twist gear in use, which is a great help in making warp. The is a great help in making warp. The writer took a room which had been run by an expert spinner, in a mill where the looms had been standing for warps and filling. In three months I had every loom running and 144 warps on the floor The weavers made better wages and we never had any trouble keeping help.

The best solicitor for help, according to my experience, is good ambition is to run all the roving I running work. As for a system for running a spinning room, cleanliness and oil never hurt the machinery. Have the roving wiped every day, and the rollers picked See that the section men have the rollers oiled after they are picked Have the rails brushed off clean and if you se a medium circle traveler you will find that the machinery.

way to get production is to The keep the broke back ends up, and the belts on the tight pulley. Have the doffing arranged so that each boy can doff his half and hold him responsible for bad piecing so as to cut the waste down. Bad piecing gives trouble on the looms, winders, spoolers and anywhere it has to go. Give your doffers enough work to keep them in the milt Make them keep the traversee clean, bobbins off the floor, etc. Set that the spinners do not throw white cotton on the floor. Make the work run so that the spinners can sit down occasionally. It is a good policy in the spinning room to give a premium to the section hand who does best work on broken ends I had a rule for the section hand to take tab at 11 a. m. and 5 p. m. on each section, and the man doing the best work got a premium Therefore, I got results. The bobbins should have all the yarn upon them that they will hold and the builder should be adjusted so as to put the right taper on the bobbins and with a well trained set of winders, spoolers and anywhere it

builder should be adjusted so as to put the right taper on the bobbins and with a well trained set of doffers good results will be had.

Piecing up, if not done right, will cause a great deal of trouble ir the spinning room. The spinners will complain of the work of the doffers and other troubles will follow the spin troubles will follow the spinning that the spinning room is the work of the doffers and other troubles will follow the spin troubles will spin trouble the spin trouble troubles will be added to the spin trouble trouble trouble troubles will be added to the spin trouble tro doffers, and other troubles will fol-

The proper humidity is a great help in spinning yarns. Keep the temperature at 70 to 76 degrees With a good humidfying system you can keep your room at any

temperature necessary.

Of course the room ought to ruin a systematic way. One point it managing help may be mentioned When a spinner stays out for a day see that her substitute picks the rolls and does the proper cleaning. rolls and does the proper cleaning Then when the regular spinner returns, she will find her frames ir good condition and will not give trouble. There are a great many things to consider in the propermanagement of a spinning room and the little things are very important. If an overseer expects to run a spinning room with success he has got to stay on his job, and if he does so, the carder and weaver will have to stay on their jobs. My

W. H. BIGELOW

AGENTS FOR

ASHWORTH BROTHERS

Tempered and Side Ground Card Clothing

Tops Reclothed. Lickerins Rewound. Cotton Mill Machinery Repaired.

12 to 18 West 4th St., Charlotte, N. C.

127 Central Avenue, Atlanta, Ga

different propositions. We must admit that the man who knows his business, in any class of work, meets with the least difficulty. After a man has had the practical and theoretical training for running a room there are other things to combat. One of the most important of these is obtaining good operatives and being able to manage them to get the best results. How can he master this first proposition? Only by having the full cooperation of the men over him and the men under him, and being a man himself, both in and out of the mill. He must have the proper auroving gearing shafting lights the men under him, and being a man himself, both in and out of the mill. He must have the proper authority to run his room, for it is a well known fact that no one else can run it for him. Living conditions must be such as to attract good operatives. It is also necessary to use sufficient stock to get the counts being spun. No man can successfully spin 45s to 50s counts from 3-4 to 7-8 inch stock. Some spinners will say that they are doing it. Yes, "everybedy's doing it," as the song says, with a front roll speed of 85 to 90 and a production of about 75 per cent, with a percentage of waste that makes the operation as costly as 1 1-16 inch stock, to say nothing of production and the dissatisfaction the spinner gets out of fighting 8 sides from morning until night. The stock must be sufficient to begin with. The carding must be more than run through and wound on a bobbin. The drafts must be properly regulated and the spindle speed must be in the bounds of reason, especially on hosiery and mercerizing yarns.

I can write enough on the defects in spinning to fill up every textile

I can write enough on the defects in spinning to fill up every textile periodical in Charlotte. However, if the few points I have mentioned are attended to, you can see a big change. Sometimes I have wondered whether we were spinning or butchering staple. This thing called spinning is a serious thing if you examine it under a microscope

Now, a real spinner's duties are to figure out his changes, drafts and twists; give the buyer the proper twist per inch for the goods to be made from the yarn, and give the greatest strength possible to the yarn; see that the number runs as of twist.

Washington Mills, Fries, Va...

and keep his mouth shut or get in trouble.

Make your sizing each day from stock and samples. Keep the men under you on their jobs and do not allow them to curse and swear at the help, as this does not get results or gain respect. See that the help stay at their work and obey orders. Have a proper day for cleaning all parts and roll stands, roving, gearing, shafting, lights ceiling and any other cleaning necessary, to keep the room in proper shape. Look after the oiling, especially spindles. See that all waste has been removed each night to its proper place. Keep all bobbins in the right place. It is better to let the stock on top of the frames run off about once a week to keep if fresh. Keep your frames lined and level, spindles plumbed, guides set, roving traverses and lifting rods working freely and see that all bobbins have the proper stroke and taper. Do not go all over your room nagging everybody, for they will soon get used to it and had taper. Do not go all over your room nagging everybody, for they will soon get used to it and had rather take the nagging than to do the work. Do not have fits and spasms if the superintendent comes into your room. He is only a mar and can find pienty to tell you about without you letting him know how many fights you have had and how the old lady had come down and put her notice in. The chances are that she saw him before you did—that is generally the way these days Keep your troubles to yourself.

Now, just a word about those lit-

Now, just a word about those lit-Now, just a word about those little pieces of steel which generally travel from 35 to 60 miles per hour All makes of travelers will answer the purpose, if you get the right shape, style and weight. But you cannot run an 18/0 on 40s filling with a 1 3-8 ring. Better come down to a 13/0 or 14/0. You can probably stand a heavier traveler on your No. 1 flange rings than those you use on the No. 2. Then since you put in those centrifugal spindles you might get out a footh spindles you might get out a tooth M. V. J.

Southern Mill Enlargements for 1912. (Continued from Page 3)

Greenwood Cotton Mills, Greenwood, S. C	23,000
*Kershaw Cotton Mills, Kershaw, S. C	10,000
Lancaster Cotton Mills, Lancaster, S. C	64,000
Easley Cotton Mill No. 2, Liberty, S. C	13,500
Maplecroft Cotton Mills, Liberty, S. C	3,500
Pickens Cotton Mills, Pickens, S. C	6,000
Conestee Mills, Reedy River, S. C	1,600
Aragon Mills, Rock Hill, S. C.	500
Highland Park Manufacturing Co., Rock Hill, S. C	8,200
Ware Shoals Manufacturing Co., Ware Shoals, S. C	15,000
Glen Lowry Manufacturing Co., Whitmire, S. C	30,000
W. S. Gray Cotton Mills, Woodruff, S. C	2,672
Total for South Carolina	274,088
Tennessee.	
*Prendergast Cotton Mill, Prendergast, Tenn	10,080
Trendergast Cotton Min, Frendergast, Tenn	10,000
Total for Tennessee	10,080
Texas.	
Denison Cotton Mills, Denison, Texas	2,000
Texas Cotton Mill Co., McKinney, Texas	4,824
*Postex Cotton Mills, Post City, Texas	10,080
Tostex Cotton Mills, rost Oity, reads	
Total for Texas	16,904
Total for TexasVirginia,	

Twine Mills Corporation Roanoke, Va.....

THE SEYDEL MANUFACTURING CO. JERSEY CITY, N. J.



Sizings and Finishings PHILADELPHIA

FOR ALL TEXTILES

Soaps and Softeners

ATLANTA

Danker & Marston BOSTON, MASS.

Danamar softener is white, neutral, clean, keeps well in summer and goes farther than Tallow. Have you tried it?

KALLE & CO., Inc.

530-36 Canal Street, New York

SPECIALTIES:

Indigo K. G .--- Thion Indigo Blue B. P. Bengaline B.

Vat Colors---Thio Indigo Colors

All Kinds of Sulphur, Direct and Basic Colors on Cotton

A. KLIPSTEIN & COMPANY 644-54 Greenwich Street, New York City

Southern Office, 17 East 4th St., Charlotte, N. C. Chicago Philadelphia Boston Providence

COAL TAR COLORS, DYESTUFFS, CHEMICALS, GUMS OILS, TANNING MATERIALS, and WAXES

We are the sole importers for all the products made by the SOCIETY OF CHEMICAL INDUSTRY Basle, Switzerland.

Manufacturers of Coal Tar Dyes, Ciba and Cibanon Fast Vat Dyes for Dyeing and Printing Cotton Wool and Silk Indigo Pastes, Synthetic Indigo.

A few of our Chemical Specialties:

ALIZARINE OIL VARNISH GUMS

FORMIC ACID MAZOLA OIL Specialty "KAURI"

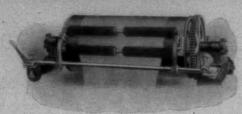
Williamsburg Knitting Mills, Williamsburg, Va	1,800
Total for Virginia	95,624
Increases By States.	
South Carolina	274,088
North Carolina	246,988
Georgia	94,754
Virginia	95,624
Alabama	50,000
Texas	16,904
rennessee	10,080
Mississippi	1,444
Missouri	1,000
Arkansas	None
Kentucky	None
Louisiana	None
Oklahoma	None

The Bristle Cloth Stretcher

The Bristle Cloth Stretcher, il- retained and in many cases has made ular favor as a means of expanding expense goods to the required width. By

lustration of which is shown here- belt stretching or tentering unnecwith, is continually gaining in pop- essary, thus saving both time and

This stretcher is also being used



being able to install this machine at with great success by print works where the moisture has practically before passing under the printing evaporated from the goods and they rolls. This machine is manufacare beginning to set, the width tured by the American Finishing gained by the steady push of the Machinery Co., of 141 Milk St., Bosbristles from centre to selvage, is

a point on the drying cylinders, to remove wrinkles in light goods ton, Mass.

World's Cotton Crops.

The following shows the world's last three cotton crops as compiled rom statistics furnished The United States Census Bureau. pales are reduced to 500 pounds net Pach and are given without linters: United States, 1911, 15,546,000; 9i., 11,483,000; 1909, 9,863,000.

British India, 1911, 2,514,000; 1910,

1,082,000; 1909, 3,774,000.

Egypt, 1911, 1,450,000; 1910, 06,000 1909, 911,000.

Russia, 1911 1,200,000; 1910, 900,-00; 1909, 720,000.

China, 1911, 625,000; 1910, 775,000; 909, 6000,000.

Brazil, 1911 320,0000; 1910, 310,000; 909, 360,000. Peru, 1911, 128,000; 1910, 128,000;

909, 107,000. Turkey, 1911, 124000; 1910, 105,-

Mexico, 1911, 100,000; 1910, 135,-IUC; 120d, 125,000.

1911, 80,000; 1910, 92,000; Pers.A, 909 90 000

Other countries, 1911, 210,000; 1910 95,000; 1909, 195,000.

1911, 22,297,000; 1910, 18,-11000; 1909, 16,777,000.

Demand for Cotton.

In reviewing the current year's cotton needs at the opening of the new season, W. T. Bakewell of the Dallas Cotton News, says: "In the 0 years since 1903, had we not outgrown the older allowance of 3 1-2 per cent, increase per year, would require this year and the coming year 15,500,000 bales of cotton. If the present rate of consumption keeps up we will spin nore than 15,000,000 bales this year. and a crop of 15,000,000 bales next ear will not only be a scant supply out an absolute necessity.

semi-civilization of Oriental peoples, and the opening of the Panama Canal, the marvelous growth of the automobile indusry, requiring heretofore unused quantities of cotton in tires, the general expansion of industrial demand for cotton, etc., point to a temand of 20,000,000 bales per annum by 1920.

DIXON LUBRICATING SADDLE CO.

BRISTOL, R. I.

Use Dixon Patent Stirrup Adjusting Saddles, the latest invention in Saddles for Top Rolls of Spinning Machines Mfrs. of all kinds Saddles, Stirrups and Levers

Send for Sample



Independence is our motto, and we have no connection with any other Ring Traveler Company.

U. S. RING TRAVELER CO.

AMOS M. BOWEN, Preas.

159 Aborn St.

PROVIDENCE. R. I.

A. H. Washburn, President

F. H. Washburn, Treas. & Manager

WASHBURN PRESS (R Y PRINTING CO.)

Commercial, Halftone and Color Printing

Engraving, Embossing and Lithographing

BLANK BOOKS AND SPECIAL RULED BLANKS MADE TO ORDER

28 West Trade Street Phone 342

Charlotte, N. C.

SACO-LOWELL SHOPS

Complete Textile Equipments

Cotton Opening and Conveying, Picking and Waste Machinery, Cards, Drawing, Roving Frames Spinning, Spoolers, Twisters, Winders, Warpers, Slashers, Plain and Fancy Looms, Cloth Room Machinery.

Executive Offices: 60 Federal St. Boston

ROGERS W. DAVIS, Southern Agt.

Realty Building

CHARLOTTE, N. C.

Ample Supply of GARLAND Loom Pickers Ready to Ship the day Your Order comes.

IX/E carry a large stock of finished rawhide loom pickers including all sizes and styles in common use, and many which are out of the ordinary, so that we are able to fill an order for almost any picker on its receipt. These pickers are thoroughly seasoned and will wear longer than those which are used as soon as made.

Try us with your next Rush Order.



SOUTHERN EXTILE BULLETIN

Offices: Room 912 Realty Building, Charlotte, N. C.

Published Every Thursday by Clark Publishing Company

> DAVID CLARK Managing Editor

D. H. HILL, Jr. Associate Editor

SUBSCRIPTION RATES

One y	ear, payable	in adv	ance .		 	 	 	1.00
	countries in							2.00
Single	copies			 	 * . * .	 	 	.10

Contributions on subjects pertaining to cotton, its manufacture and in addition to her one new mill. distribution are requested. Contributed articles do not necessarily reflect the opinion of the publishers. Items pertaining to new mills, extensions, etc., are solicited.

ADVERTISING

Advertising rates furnished upon application.

Address all communications and make all drafts, checks and money orders payable to the Clark Publishing Company, Charlotte, N. C.

Entered as second class matter March 2nd, 1911, at the post office at Charlotte, N. C., under the Act of March 3d, 1879.

THURSDAY, FEBRUARY 6

Contest on Spinning.

In this issue will be found the the best practical articles on "Prac- South during the year 1912. tical and Efficient Spinning."

to be finished products from a 1912 edition of Clark's Directory of literary standpoint, but they are Southern Cotton Mills with the Jan. the practical ideas of practical men 1st, 1913 edition which has just been who have had years of experience issued. Included in the list are new among spinning frames.

many new ideas or suggestions but of which the machinery has not yet large, the above figures show that the man who reads them through- been installed. Textile Bulletin he has run con-during 1912 as only 94,000. tests on "Opening, Mixing and Pick- The list given for the South does Help."

the South.

Southern Mill Enlargements for

On the first page of this issue we first of a series of articles which are publishing a complete list of will be contributed to a contest for new mills and enlargements in the

This list is compiled by compar- follows: These papers will not be found ing the data given in the Jan. 1st. mills and enlargements which are

is of practical value to him if he additional spindles representing a 1912, the per cent of increase of the is interested in cotton manufac- total investment of over \$17,000,000 other states is not more than can turing. The idea of these contests breaks all records and is all the be called normal or healthy and is was originated by our editor while more remarkable when we consider probably not more than the natural connected with another publication that recent reports give the num- increase in the demand for goods by tion.' and since inaugurating the Southern ber of spindles installed in the North reason of our increase of popula-

to replace old machinery and it is small number of new mills. These These contests gather together estimated that almost 200,000 spin- were distributed as follows: the best ideas of the practical men dles were received for that purin the mills and when the contests pose as the Southern mills have are over they are bound in book been very active during the year in form and widely distributed over discarding old equipments and re-, a placing them with new.

Increase by States:

	Spindles
South Carolina	274,088
North Carolina	268,988
Georgia	94,754
Virginia	95,624
Alabama	50,000
Texas	16,904
Tennessee	10,080
Mississippi	1,444
Missouri	1,000
Arkansas	None
Kentucky	None
Louisana	None
Oklahoma	None

Total for South.. 790,882 Spindles

in Mississippi and Missouri the creases amounts were insignificant.

nesseee, and Texas added only 6,900 mors of many more.

The Alabama increase is due almost entirely to the new mill at Sylacauga while the Dan River and Riverside Mill Co. are responsible for almost the entire increase in Virginia.

The bulk of the machinery was, as usual, installed in the mills of on Tuesday, February 11th. North Carolina and South Carolina there being 64.5 per cent of the total increase placed in those two the court house. states while an additional 8.5 per cent was placed in Georgia.

The division of the total by states was as follows:

South Carolina	33.5	per	cent.
North Carolina	31.	31	23.
Georgia	8.5	11	11
Virginia	8.5	11	23
Alabama	6.	.55	

dles by the different states was as

Virginia	23,5	per	cent.
North Carolina	7.3	23	11
South Carolina	6.3	27	11
Georgia	4.5	11	11
Alabama	5	21	.11

While the total number of spin-Some of them do not contain now under construction but in some dles installed in 1912 appears very eliminating Virginia, which had a out this contest will find much that This list showing almost 800,000 very small total of spindles Jan. 1st, tion.

The most striking feature of the

Alabama			*		*						*						1
Georgia .		1	6														(
Kentucky		á						100	1		4	17.00					
Louisiana		8			í	ü							13			ä	
Mississippi							1				Ž		-			ä	
Missouri	ú			Ø			ij.	á	ĕ			ö		Ø	é	á	1

Thursday, February 6, 1913.

North	Ca	ro	lin	a			000	-	-				*	6
South	Ca	rol	in	a		-	E.	-		*	-			1
Tennes	see					9	000		-					1
Texas														1
Virgin														0
														-

The amount of spindles installed in these new mills was 124,000 or 151/2 per cent of the total for 1912. 45½ per cent of the total increase for 1912.

spindles went to increase the capacity of existing plants can be considered a very healthy sign.

There is every indication that the year 1913 will not be far behind the year just passed. The prices of machinery are higher than at this It will be noted that four states, time last year, but the mills are Arkansas, Kentucky, Louisiana and more prosperous and in better fi-Oklahoma made no increase while nancial condition to make the in-

We can now name orders for 1913 to the extent of 140,000 spindles With the exception of one new that have been already placed or mill there was no increase in Ten- are now pending and there are ru-

Hard Yarn Spinners to Meet.

Representatives of a large number of the hard yarn spinning mills in three Southern States, composing the Hard Yarn Spinners' Association of the Carolinas, Georgia and Alabama, will meet in their second annual session in Gastonia, N. C., on Tuesday, February 11th. There will be two sessions, one beginning at 10:30 a. m. and the other at 2:30 p. m., the meetings to be held in

This association was organized here February 6, 1912. It is prob-able that there will be in attendance a hunderd or more prominent cotton manufacturers from all sections of these states.

Following is the complete program:

MORNING SESSION, 10:30 A. M. Address of welcome by J. H. Se-The per cent of increase in spin- park, mayor pro tem, of Gastonia Response by E. H. Williamson, Fayetteville, N. C.

Annual report of the secretary and the receiving of dues of new members.

General discussion and adjournment for dinner.

AFTERNOON SESSION, 2:30 P. M. Meeting called to order by the president, W. B. Moore, of Yorkville. S. C.

Address: W. J. Roddey, of Rock Hill, S. C. Subject: "The Advan-J. Roddey, of Rock tages of Co-operation and Organization."

F. L. Edwards, of Athens, Ga., Confidence in Your Fellow Necessary to Successful Co-opera-

R. B. Knox, of Newton, N. C., "Relation Between Employer and Employee.

W. Stackhouse, Marion, S. ing" and also on "Management of not include machinery purchased 1912 statistics is the comparatively "Best Method of Utilizing and Disposing of Waste and By-Products."

W. B. Moore, Yorkville, S. C.. "Selling Direct: Consumer and Pro-ducer Brought Together Through Our Secretary With Commercial Ratings Obtainable Through Him.

New business

Election of Executive Committee

BYRD TEXTILE MACHINERY AND SUPPLY CO.

DURHAM, N. C.

Manufacturers of and Dealers in

MILL SUPPLIES, MACHINERY, ETC.

N. C. SELLING AGENTS

DOUGLAS & CO'S. MILL STARCHES.

PERSONAL NEWS

- J. C. Dugard is now clothing eards at the Pelham (Ga.) Mfg. Co.
- W. James has accepted the C. position of overseer of spinning at the Manchester Mfg. Co., Macon, Ga.
- E. F. Vaughn has resigned as second hand in cloth room at the Clifton (S. C.) Mills.

Yateman Gray has accepted the position of second hand in cloth room at Clifton, S. C.

Grady Richardson, of Bessemer City, has accepted a position with one of the mills at Charlotte, N. C

- J. J. Warner, of Hope Mills, N. C. now has a position in the card room at the Locke Mills, Concord, N. C.
- W. L. Boyd has resigned as superintendent of the Fort Mill (S. C.) Mfg. Co., No. 2.
- R. B. Kennedy has been promoted to assistant manager of the Waxahachle (Texas) Cotton Mills.
- J. R. Burke has resigned as second hand in weaving at the Highland Park Mill, Rock Hill, S. C.
- J. C. Rampley has been promoted to second hand in weaving at the Inman (S. C.) Mills.

Ivey Spinks, of Charlotte, N. C. is now loom fixer at the Highland Park Mills, Rock Hill, S. C.

Grady Settlemeyer of Gastonia, N (S. C.) Mills store.

C. R. Thompson of Alabama City, W. W. Tripp has been promoted Ala., has accepted the position of to overseer of spinning at the Dur-(Texas) Mfg. Co.

- A. Goring is now bookkeeper at the Home Cotton Mills, St. Louis, Mo.
- W. A. Harris has resigned as comber man at the Marlboro Mill No. 4, McColf, S. C.
- T. J. Leagan has accepted the position of second hand at the Harborough Mills, Bessemer City, N. C.

Love Jenkins has resigned as master mechanic at the Atlas Mills, Bessemer City, N. C.

- O'Shields has resigned as manager of the store of the Watts treated for rheumatism. Mills, Laurens, S. C.
- Mills, Anderson, S. C.
- J. W. McAlpine has resigned as overseer of spinning at the Fort Mill (S. C.) Mill No. 2.
- L. P. Darnell has resigned as overseer of spinning at the Issaqueena Mills, Central, S. C.
- J. O. Epps is now comber man at the Marlboro Mills No. 4, McColl, bus, Ga.
- from second hand to section hand at the Issaqueena Mills, Central.
- W. R. Goodwin has been promoted from loom fixer to second hand Mills, LaGrange, Ga., has resigned C., now has a position in the Clifton in weaving at the Pelham (Ga.) Cotton Mills.

overseer of spinning at Sherman ham Hosiery Mills, Chapel Hill, N

- SPINNING CARDS. DRAWING FRAMES COTTON MILL MACHINERY MASON MACHINE WORKS TAUNTON, MASS. EDWIN HOWARD, Southern Agent Charlotte. N. C. **MULES** LAP MACHINES LOOMS.
- M. Hamer has resigned president of the Dillon Mills, of Dillon and Hamer, S. C.
- C. L. Heath has accepted a position in the cloth room at the Deep River Mills, Randleman, N. C.

Yancey L. Yon has resigned as overseer of spinning at the Man-chester Mfg .Co., Macon, Ga., and moved to Augutsa, Ga.

- M. B. Stukes, of the Anderson (S. C.) Cotton Mills, is now fixing looms at the Saxon Mills, Spartanburg,
- J. D. Hammett, president of the Anderson (S. C.) Cotton Mills has gone to Hot Springs, Ark., to be
- J. W. Langford has been promot-L. T. Curry has resigned as over- ed from secretary and treasurer of seer of weaving at the Toxaway the Dillon (S. C.) Mill Co. to president of that corporation.
 - Ed. Blanchard has resigned his nosition with the Anderson (S. C.) Wills, and is now with the Toxaway Mills, of the same place.

Fred Greenwood of Lowell, Mass., has become overseer of dyeing at the Eagle and Phenix Mills, Colum-

- W. L. Moody of Brenham, Texas. J. W. Wilson has been transferred has become overseer of spinning and spooling at the Hillsboro (Tex.)
 - T. J. Gibson, overseer of cloth room and shipping at the Dixie the shipping.
- B. V. Mooty has resigned as over-W. W. Tripp has been promoted seer of the cloth room at the Dixie Mill, LaGrange, Ga., to become shipping clerk at the Dunson Mills, of the same place.

- J. A. Parker has resigned his position with the Camperdown Mills, Greenville, S. C., to become overseer of carding at the Eureka Mills, Ches-
- T. S. Sims, formerly overseer of weaving at the Orangeburg (S. C.) Mills, has accepted a similar posi-tion with the Warren Mfg. Co., Warrenville, S. C.

Walter Branson, of the Hamilton Carhartt Mills, Rock Hill, S. C., now second hand in weaving at the Highland Park Mill, of the same place.

- L. R. Gilbert, who was promoted' last week to superintendent of the Caraleigh Mills, Raleigh, N. C., is a graduate of the Textile Dept. of the A. & M. College at Raleigh, N. C.
- D. L. Wall has resigned his position with the Southern Spindle & Flyer Co., Charlotte, N. C., to become overseer of carding at the Swift Mfg. Co., Columbus, Ga.

Ernest Langley has resigned machinist at the Manetta Mills, Lando, S. C., to accept a position with the U. S. Navy Yards, Charleston, S. C.

- W. W. McIntosh has resigned as superintendent of the Mt. Pleasant Mfg. Co., Kimesville, N. C., to become overseer of No. 1 spinning room at the Roanoke Mills, Roanoke Rapids, N. C. --
- J. D. Lokey has resigned as superintendent of the Gainesville (Ga.) Cotton Mills and will again engage in the real estate business. He was 32 years in the mill business and superintendent of the Gainesville Cotton Mills for five years.

OVERFLOW PERSONALS PAGE 16



Cramer System of Air Conditioning

WITH OR WITHOUT

Automatic Regulation of Humidity and Temperature

Moderate in Cost Cheap to Operate Yields Big Returns

STUART W. CRAMER

CHARLOTTE,

NORTH CAROLINA

MILL NEWS ITEMS OF INTEREST

Franklinville, N. C. The Ran-

Davidson, N. C. - The Delburg Cotton Mills are erecting six new tenement houses.

Huntsville, Ala.-The Merrimack Mills have about completed the construction of a large new warehouse

Granite Falls, N. C.—The Dudley Shoals Cotton Mill Company recent-ly bought the Liledoun Shoals on middle Little River.

Guthrie, Okla.-The Pioneer Cotton Mills have recently installed two Hussong dyeing machines and a Luther polishing machine.

Raeford, N. C.—It is reported that T. B. Upchurch, J. C. Thomas, and others will build a 9,000-spindle mill at this place, the machinery to be driven by electric power.

Lilesville, N. C .- The mill which J. W. Kaneer and associates propose to build at this place will be a yarn mill of probably 5,000 spindles.

Chicamauga, Ga.-A petition in involuntary bankruptey has been filed against the Chickamauga Manufacturing Co.

Greenville, S. C .- John B. Marshall is planning the organization of a company to build a plant for manufacture of cotton waste

Roanoke Rapids, N. C.-The Patincreasing their capital stock from ancial shape. \$500,000 to \$1,000,000, will add 2880 spindles and 96 looms to their present equipment.

Greensboro, N. C .- The Cone Export & Commission Co. has anflannels; Mineola and Tencenter fancy flannelettes

Mills have declared a dividend of 4. per cent.

The Griffin Manufacturing Co. has declared an annual dividend of

5 per cent. The Kincaid Manufacturing Co. declared an annual dividend of 10 per cent.

Gastonia, N. C.-Gastonia's newest mill, the Armstrong, which began operations only a few days ago. made its first shipment of yarns ed in motion.

dolph Mfg. Co. has let contract for Mills, recently reported as organiz- and the other two incorporators, C. three new mill tenements. ed, will erect one and two-story W. Durham and C. F. Hamberg, of 666x132-foot building, of mill construction, costing about \$125,000. The date of opening bids has not been determined. Will install 25,000 spindles, 680 40-inch looms, 1,500 horsepower electrical equipment, etc. Engineer-architect in charge, J E. Sirrine of Greenville, S. C.

> Dillon, S. C .- At a recent meeting of the directors of the Dillon Mills. J. W. Lanford was elected president of the mills to succeed W. M. Hamwho was forced to resign on account of his extensive farming interests. Mr. Lanford has been secretary and treasurer of the mills for several years and is theroughly familiar with the details of the business.

are erecting a handsome school be postponed. The auctioneer offer-building in their village. The build- ed up the property after the deing is to be of brick, two stories high, containing eight class rooms. J. E. Sirrine, of Greenville, S. C., is the architect and the contract for announcement was made that the construction work was let to sale would go over. Pike Bros. Lumber Co., of this place. be completed in four to six weeks.

Union, S. C. - The stockholders and directors of the Excelsior Knitting Mills held their annual meeting Tuesday of last week. All of the old officers were elected to serve another year. These are, Emelie Nicholson, president; R. P. Harry, vicepresident; J. H. Gault, secretary and manager. The property and plant were found to be in first-class conterson Mills, reported last week as dition and the company in good fin-

Charlotte, N. C .- Rapid progress is being made at the new Thayer Mill, which is being built at Thrifton, which is a few miles out of this The spinning room is ready city. nounced that it has sold the entire for the roof, which will be put on production of Revolution solid color within the next 30 days. The spinning machinery will be installed soon after the roof is put on. Work the weave room is going on rap Griffin, Ga.-The Rushton Cotton idly. It is expected that the mill will be completed this spring and begin operations in the early summer.

Los Angeles.-The Olympia Cotton Mill of Southeri California, which was incorporated last as noted, with a capital of \$2,500,000. proposes to erect a plant at San and no traveling man is Pedro, or Los Angeles Harbor. It known or has more friend is understood that the selection of the Southern cotton mills. that place as the factory site was decided upon in view of the increaslast Saturday, the consignment be- ed shipping facilities which will be ing made to Messrs. Chas. J. Webb afforded there upon the completion

Lexington, N. C.—The Bel-Vi-Dere in the newly incorporated company, this city, each own but I share of stock of the par value of \$1. The new concern will manufacture cotton and woolen goods.

> Anderson, S. C .- The plant of the Cox Manufacturing Company advertised for sale Feb. 3 by J. R. Vandiver, trustee, was not sold. The upset price had been fixed by the court at \$275,000, and there was no bid received. The mater will now have to be referred to the court another and lower upset price fixed and another date fixed for the sale of the property.

There was quite a crowd on hand when the time for the sale arrived On account of the rain, the crowd assembled in the corridor of the court house, blocking it until it had LaGrange, Ga.—The Dunson Mills been announced that the sale would scription had been read. It was known within a few minutes that there would be no bidders, and an-

It is expected that the school will National Association Cotton Manufacturers.

The annual spring meeting of the National Association Cotton of Manufacturers will be held in Bos-April 23 and 24. It is understood that an unusually interesting program is being prepared. The Texton. Wednesday and Thursday, gram is being prepared. The Textile Exhibitors' Association will not hold an exhibtion this spring.

Welfare Work at Dan River.

Charles R. Towson, international secretary of the Y. M. C. A. who is at the head of the industrial department of New York, was in Danville the welfare workers of Schoolfield. After seeing the work and studying their reports, he expressed himself as very much pleased with the kind in Schoolfield.

Frank North Changes Position.

Hoffman Co. with Georgia and Alabama as his territory.

Mr. North filled his position with ket for gray cloth.

arber-Colman Co. for twelve years It was only the other day that Barber-Colman Co. for twelve years and no traveling man is better one leading broker stated that on known or has more friends among many classes of fine goods the South

Vivian Guion With Peeler Bros.

Vivian Guion, of Greenville, S. C. new enterprise, owns \$1,325,000 stock tative of Peeler Bros., who do a large Record.

starch business with the Southern mills.

Mr. Guion has not only had a long association with the starch business but is also an experienced mill man and we wish him much success in his new work.

Cliffside Ginghams.

One example of how some of the Southern mills have grown in the last ten years is found in the Clifside Mills, of Cliffside, N. C., through the Cone Export and Commission Co. Back in 1903, this mill. which makes staples ginghams had only about 300 looms, today the mill has 1,500 looms and more than 40,-000 spindles, and is one of largest in this country, engaged in mills. the manufacture of staple ginghams.—Daily Trade Record.

Dunean Mills.

Attention was called a short time ago to the product of the Dunear Mills, which when shown in the local market was pronounced by some experts in cotton fabrics to be the equal of goods made at New Bed-The fabrics in question were waistings, leno stripes and others of an extremely fine character, yarns in which, in some instances, counted as high as 100, and the fabric, weighing as light as 15 yards to the pound. The trade as a whole not been entirely alive to development in fine goods which has been going on through the South in the newer mills.

The Parker Cotton Mills Co., was incorporated in 1911; the Dunean Mills in 1911. These are comparatively brand new mills with equipment up-to-date in every respect The goods they turn out, including waistings, pique welts, shirtings, dobby effects and leno stripes, are of a high count, character and as recently and held a conference with fine, both as regards count and yarns used in their construction, as any goods made in this country. The Duneau Mill is 1,200 loom mill and has jacqard looms. The result of of work that the ladies were doing the development in the manufacture fine goods in the South at such mills as some of those controlled by the Parker Cotton Mills Co., the Dunean Mills, the Watts Mills and Frank North, of Atlanta, Ga., has other Southern mills has been an resigned as Southern representa- active competition on a number of tive of Barber-Colman Co. and has classes of fine cloths such as are accepted a position with Arnold mentioned, which has undoubtedly cut in on the business of some of the New Bedford mills in the mar-

had New Bedford on the jump, was competing to such an extent that the inroads were being seriously felt through the market by the New Bedford manufacturer. & Co., Philadelphia. This mill is of the Panama Canal.

who recently resigned his position is little doubt that on a great many now practically complete and about

M. W. Durham, who, it is under- with the Corn Products Refining classes of fine goods, this statement all of the machinery has been start- stood, will be at the head of the Co. has become Southern represen- can be taken as fact.—Daily Trade can be taken as fact.—Daily Trade

Southern Manufacturers.

In discussing the Southern manfacturer there is one point which is very noticeable. This is the manner in which he is open to suggestion. He has not shut himself up within himself, in the belief that he knows the whole thing about the industry, but is willing to learn and accept methods which have been used successfully in other mills. He is also grasping readily the most modern ideas of manufacture, which is plainly evident in the number of modern looms which fill the cotton mills dotted throughout the South today.— Wool and Cotton Reporter.

Cotton Mills for Panama.

The National Assembly of Panama recently enacted a law to encourage cotton manufacturing in the Republic of Panama. The Executive is authorized to accord certain privileges to individuals or companies who formally make application therefor. Among these privileges is included the importation, free of all duty, for 10 years of machinery destined exclusively for the manufacture of yarns (hilados) and tissues of cotton, and the free importation of primary materials for the same industry (cotton and hilazas) so long as they are not produced in the country in quantities sufficient for the needs of manfactories.—Consular Reports.

English Cotton Trade Profits.

In Mr. William Tattersall's cotton trade circular for 1912 an analysis of the stock-taking results of cotton spinning companies at the end of December shows a profit on share capital of nearly 11 per cent per annum, while on share and loan capital combined the profit is nearly 8 per cent per annum, after allowing interest on loans. With relowing interest on loans. gard to the future course of trade Mr. Tatersall says that weavers of cloth have now about two and a half years' profitable experience. but there are no signs of any falling off in demand, and most manufacturers are assured of full work up to the middle of 1913. In the spinning section the current year should be even better than the past 12 months.—Consular Reports.

Labor Bills in Texas.

A bill introduced in the Texas State Legislature and now before the Senate Committee on Labor which prohibits the working of female laborers in Texas more than nine hours a day, or 54 hours a week and requires provision of seats in department stores to be used by workers when not actually employed, is meeting with great oppo-



We were the originators of guaranteed humidity. Couldn't see why you were not entitled to a result. But this platform sometimes adds to the selding price—because we figure the conditions that you nominate. If you don't nominate the same conditions, then naturally you can get a lower price elsewhere.

Here's a case in point. Customer gave job to competitor—36 heads. Has continued to purchase 50 more at so much per to attain the performance we guaranteed.

Our original price was higher—but the final price plus the bother was not.

THE G. M. PARKS CO. FITCHBURG, MASS.

Southern Office, No. 32 West Trade St., Charlotte, N. C. B. S. COTTRELL, Manager

The Byrd Knotter
Price \$20.00

Simple of Operation
DurabilityGuaranteed
Small Repair Cost____

Byrd Manufacturing Co. DURHAM, N. C.

sition from owners of cotton mills, overall factories, laundries and other industries. Among those who have spoken in opposition to the bill are J. C. Saunders, of Bonham, representing the Bonham and Cuero Mills Walter Hogg, of the Dallas Mill; A. T. Clifton, of Waco, manufacturers of tents, cotton bags etc.; T. F. Harwood, of the Gonzales Mill D. C. Giddings, of the Brenham Mill; W. B. Munson, Jr. of the Denison Mill, and Hiram Grass, of Austin, representing the railroads.

Demand For Fine Goods.

A report is current in the market to the effect that over 300,000 pieces of fine plain combed yarns contracted for last week in mill outside of New Bedford, while the demands were active enough to influence prices from 1-4 cent to 1-2 cent higher, created considerable comment among some of the brokers and mill men handling and making these classes of fine gray cottons. It is somewhat surprising that the sale of 300,000 pieces evidently was made without the knowledge of some of the best posted factors on the street. Goods of this character both made by the New Bedford mills and outside of New Bedford have not been active, and that no sales at advances of from 1-4 to 1-2 cent have been made during the The statement is made. past week. both by brokers and by mill men that the goods are being made by some of the mills and sold at a positive loss, while other mills are piling up goods. The demands from the white goods trade have, of course, been hurt by the strike. There is, however, as stated recently, a difference, in the asking prices on the part of mills making this class of goods, of from 1- to 3-8 cent a yard, some mills being lower than others who are holding out for a living profit.-Daily Trade Record.

Must Have Been.

"The train struck a man and injured him severely." "Was the man on the track?" "He was. No engineer, I trust, would run me train into the woods after a man."—Ex.

It Was the Dog's Own Fault.

A farmer, while loading hay in his field was attacked by his neigh-hör's bulldog. The man defended himself with the pitchfork and sent the dog yelping home. The neighbor rebuked him and asked why he didn't use the blunt end of the fork first.

"I would have," replied the farmer, "if your dog had come at tme blunt end first."—Ex.

AMERICAN MOISTENING COMPANY

BOSTON, MASSACHUSETTS

THE ONLY PERFECT SYSTEM OF AIR COMINS SECTIONAL HUMIDIFIER

FRANK B. COMINS, Vice-Pres. & Treas.

MOISTENING

JOHN HILL Southern Representative, Third Nat. Bank Building, ATLANTA' GEORGIA

Cotton Goods Report

New York.—The market for gray cloths was more active than for principally for printers' narrow some time past, the printers pur- styles, in odd counts. Buyers have on this class of goods.

The general tone of the market months ahead. throughout the week was more acand prices firm as quoted below. On ing spote. Goods sold ahead were many constructions of gray cloths mostly for February, March and mills are asking from 1-16 to 1-8 April. A fair amount will extend during the week, and some mills are great quantities at short notice, holding this construction for 7 1-4 Prices on cotton goods were quot-cents. The firmness in the cotton ed in New York as follows: market together with the increased demands for cloth, has been a factor in the stiffness of prices. increased demand for gray cloths was felt by both the Southern and Eastern mills making print cloths and other classes of goods. Sellers and mills are greatly encouraged at the developments of the past week. It seems as if prices will go higher, provided demands for goods continue as active as was the case during the past week.

Brown and bleached goods, den-

ims, tickings and similar lines are moving steadily to fill old orders and some new business is coming through from day to day, to cover Std ginghams ... 6 1-4 to 6 1-2 later requirements. Jobbers are Fine dress ginghams 7 1-2 to 9 1-4 moving very fair volumes of do- Kid fin. cambric ... 4 1-2 to 4 3-4 mestics, as retailers are replenishing stocks which have been grad- Visible Supply of American Cotton ually worked down. While jobbers are not placing any large amount of new business on cotton goods they are insistent in their demands for more prompt deliveries on old orders which are already past due

In the Fall River print cloth market last week, trading was very ac- New York, Jan. 31.—The follow-tive and the sales were three times ing statistics on the movement of week. In view of the activity of the last part of the previous week and the fact that it was generally known that buyers had been securing goods in quantities barely sufficient to carry them along from week to week, manufacturers expected an improvement but the brisk trade that developed was entirely unexpected. The sales reached six times the volume of the sales during the weeks in last December and it is expected that the boom will continue.

The concessions offered by manufacturers, served, to some extent, to bring buyers into the market, but the prices were stiffened almost immediately by the active bidding Notwithstanding the strengthening of the market, buyers continued bidding and there was no noticeable let up with the advanced quotations Thus far, advances have been light Brought into sight thus not exceeding 1-16 of a cent a yard. Styles in strong demand have brought the advances, but advances on other styles are looked for.

The demand during the week was chasing wide print cloths in sub- also been in search of wide goods stantial quantities. Sateens were and manufacturers have not hesi-also in better demand and some tated in disposing of these goods. substantial sales were put through There has been free trading in futures, the demand extending two

Sales for the week were about tive with an advancing tendency 360,000 pieces, about 120 pieces becent higher than last sales, and the as far as May. Contracts for delivprices which users of the goods ery several months ahead were inare willing to bid. Sales of 80 by 80, duced because of the inability of four yard, at 7 1-8 cents were made manufacturers to furnish goods in

ed in New York as 101	lows			
Prt clths, 28-in, std 4			_	
28-in, 64x60s 3	7-8			
4-yard .80x80s . 7	1-8			
Gray goods, 39-in, 68				
x72 5	3-4	to	5	7-8
38½-in, std 5				
Brown drills, std., 8			name .	
Sheetings, south-				
ern std 8		to	8	1-4
3-yard 7	3-8	to	7	1-2
4-yard, 56x60s6	3-8			
Denims, 9-oz14		to	17	
Stark, 8-oz, duck14			-	
Hartford, 11-oz, 40-				
inch duck16	7-8			
Tickings, 8-oz13				
Std fancy prints 5	1-2		-	
	4 .	S. Carlot	100	4 0

Jan. 31, 1913		4,641,699
Previous week		 4,759,561
This date last	year .	 4,965,144

Weekly Cotton Statistics.

as large of those for the previous cotton for the week ending Friday January 31, were compiled by the New York Cotton Exchange:

WEEKLY MOVEMENT

	This yr
Port receipts	189,303
Overland to mills and Can-	
ada	30,255
Southern mill takings (es-	
- timated)	75,000
Loss of stock at interior	
towns	18,344
Brought into sight for the	

week	276,214
TOTAL CROP MOVEM	ENT
Port receipts	1,844,927
Overland to mills and Can-	
ada	664,631
Southern mill takings (es-	
timated)	1,800,000
Stock at interior towns in	
excess of Sept. 1	606,964
Dugueht into sight thus	

far for season 1,091,322 Four hundred and forty-four bales deducted from receipts for far for season the season.

GRINNELL WILLIS & COMPANY

44-46 Leonard Street, New York

SELLING AGENTS

BROWN AND BLEACHED COTTON GOODS FOR HOME EXPORT MARKETS

RICHARD A. BLYTHE

Cotton Yarns Mercerized and Natural

505-506 Mariner and Merchant Building

PHILADELPHIA, PA.

The Desirability of the South

as the place to manufacture cotton goods is illustrated in the increase of 67% quoted by census department. We can offer attractive situations for those desiring to enter this field.

J. A. PRIDE

General Industrial Agent, Seaboard Air Line Railway NORFOLK, VIRGINIA.

When you enjoy the economy of lubrication provided by



you discover that increased production means a great deal more than a slightly lower lubricant expense.

Figure out the saving involved in a 50% reduction of oil stains in your Carding, Twisting and Spinning. Then write us for test samples of NON-FLUID OIL for Comb-boxes, Roll Necks and Twister Rings.

SOLE MANUFACTURERS

New York & New Jersey Lubricant Co. 165 Broadway, NEW

Collins Tape Drive Twister Saves 50 Per Cent Power

Over the band drive machine. It positively improves quality and increases production. Cotton manufacturers should investigate. Full particulars upon request. We have been building Twisters 50 years and we know how, -let us save you money.

COLLINS BROS. MACHINE CO. PAWTUCKET, R. I.

A. H. WASHBURN, - - Southern Agent - - CHARLOTTE, N. C.

-22 1-2

_37

-28 1-2

-28 1-2

The Yarn Market

Southern Single Warps:

Southern Two-Ply Warps:

18s 23 —23 1-2

..... 24 1-2-25

Two-Ply Carded Peeler in Skeins: 20s 26 1-2— 27

Single Combed Peeler Skeins:

60s 50

Philadelphia, Pa.-In the yarn market, the last week in January with yarn users displaying very lit- 16s tle interest in future business. What 20s 23 buying there was depended largely 24s 24 on the price and the dealer who 26s quoted the lowest prices usually 40s 36 got the business. The whole month was a poor one, so far as new business was concerned. The month was active where deliveries on old contracts was concerned and dealers charged up about the average 12s 21 1-2—22

21 1-2—22 quantity. Receipts from the South 148 22 present light demand aand liberal 20s 24 40 days will show a considerable ac- 30s 28

The demand for combed yarn 50s 45 above 40-2 is very light. Hosiery makers say they cannot afford the price and that there is nothing in Southern Frame Spun Yarn on Cones it for them. Some knitters are well covered on yarns, but are not get-than two-ply. Spinners of single 22s yarns seem to be in more pressing need for business than spinners of 26s two-ply and as a result prices are 30s somewhat weak and irregular.

	Southern Single	e Skeins.
48	to 8s	
108		20 1-2-21
12s		
148		
168		
208		
268		
30s		00

Southern Two-Ply Skeins:

	-an enda			
88	 20 1-2-	21 2	0s	29 1-2-30
108	 21 1-2-	2	48	30 1-2-31
128	 21 1-2-	3	0s	2434 1-
148	 21 1-2-	22 4	08	
16s	 21 1-2	22 5	0s	
20s	 23 1-2-	24 6	0s	
248	 25 —	25 1-2		
268	 26 —			
		28 1-2		
			Two-Ply Combed P	eeler Skeins:

30s	38 —	T DI C L I D I MI I
		20s
8-4	20 —20 1	-2 50s 48 —50
8-4 slack	20 1-2-	60s 57 —60
9-4 slack	20 1-2-	70s 69 —71
8-3 hard twist	19 1-2-	80s 77 —88

A. M. Law & Co. F. C. Abbott & Co.

Spartanburg, S. C.

BROKERS

Dealers in Mill Stocks and other

Southern Securit		, inc.	
South Carolina and Geo	rgia	Mill	•
P	tid A	Asked	
Abbeville Cot. M., S. C.		100	
Aiken Mfg. Co., S. C	35		1
Amer. Spinning Co., S. C. Anderson C. M., S. C., pf	154	•••	
Aragon Mills, S. C		65	9
Arcadia Mills, S. C	91		
Arkwright Mills, S. C		100	
Augusta Factory, Ga Avondale Mills, Ala	115	120	
Belton Cot. Mills, S. C.	100	120	
Brandon Mills, S C.	75	85	
Brogon Mills, S. C Calhoun Mills, S. C		61	
Capital Cot. Mils, S. C	•••	51 85	
Chiquola Mills S. C.	***	00	
New issue Clifton Mfg. Co., S. C	100		
Clifton Mfg. Co., S. C	85		
Clifton Mfg. Co., S. C. pf Clifton Cot. Mills, S. C.	100	125	
Courtenay Mfg. Co., S. C.		90	
Columbus Mfg. Co., Ga.	921/2	100	
Cox Mfg. Co., S. C		100	
D. E. Converse Co., S. C. Dallas Mfg. Co., Ala	75	110	
Darlington Mfg. Co., S.		110	
C Drayton Mills, S. C		75	
Drayton Mills, S. C	0	800	
Eagle & Phenix M., Ga. Easley Cotton Mills, S. C.	85 165	100	
Enoree Mfg. Co., S. C.	25	50	
Enoree Mfg. Co., S. C.,			
preferred		100	
Enterprise Mfg. Co., Ga. Exposition C. Mills, Ga.	65	70 210	
Fairfield C. Mills, S. C.		70	
Gaffney Mfg. Co., S. C		70	
Gainesville Cotton Mills,		OF.	
Ga., common Glenwood Mills, S. C		65	
Glenn-Lowry Mfg. Co.,			
S. C.,	101		
Glenn-Lowry Mfg. Co., S. C., preferred		86	
Gluck Mills, S. C	80		
Grandy Col. Mills, S. C.			
Granby C. M., S. C., pfd.			
Graniteville Mfg. Co., S.	140	145	
Greenwood C. Mills, S. C.		57	
OLUMBIA MILITIO, D. C	100	103	
Hamrick Mills, S. C Hartsville C. M., S. C	170	102	
Inman Mills, S. C		105	
Inman Mills, S. C., pfd	4.5	100	
Jackson Mills, S. C		95	
King, John P. Mfg. Co., Ga	80	86	
Lancaster C. Mills, S. C.	130		
Lancaster C. Mills, S. C.			100
preferred Langley Mfg. Co., S. C.	98	75	
Laurens C. Mills, S. C	70	75 120	
Limestone C. Mills, S. C.		145	
Lockhart Mills, S. C		60	
Marlboro Mills, S. C	60	75	
Mills Mfg. Co., S. C Mollohon Mfg. Co., S. C.	110	90	
Monarch Cot. Mills, S. C.	110		
Monaghan Mills, S. C			
Newberry C. Mills, S. C Ninety-Six Mills, S. C.	135		
Norris C. Mills, S. C	135		
Orangeburg Mfg. Co. S.			

Charlotte, N. C. **BROKERS**

uthern Mill Stocks, Benk Stoc N. C. State Bonds, N. C. Rail- . road Stock and Other High

Grade Securities		
North Carolina Mill	Stock	8.
	Bid.	Asked
Arista	80	
Avon		100
Brown, common		115
Brown, preferred		100
Cannon	125	130 150
Chadwick-Hoskins		90
Do. Pref		101
Clara	180	110 200
Cora		140
Efird	106	125 125
Erwin pref	105	120
Gaston		90
Gibson	95	100
Florence		124
Florence	181	185
Henrietta Mills	150	155
Loray, preferred	90	92
Lowell		181
Lumberton		251 100
Mooresville	142	150
Modena Nakomis		100
Patterson	12	200
Patterson	100	104
Roanoke		155
Wiscassett	105	120
Woodlawn		102
Olympia Mlls, S. C., pfd		
Parker Cotton Mills,	100.1	00∫
guaranteed preférred		60
common Orr Cot. Mills, S. C		20 91
Ottaray Mills, S. C		100
Oconee Mills, common.		100
Oconee Mills, pfd Pacolet Mfg. Co., S. C		& in.
Parolet Mfg. Co., pfd	100	& in.
Pelzer Mfg. Co., S. C.,		135
Pickens C. Mills, S. C. Piedmont Mfg. Co., S. C.	. 100	160
Poe F. W.) Mfg. Co., S		
C Richland C. M., S. C., pt	105	115
Riverside Mills, S. C.		-25
Roanoke Mills, S. C	140	160
Saxon Mill, S. C Sibley Mfg. Co., Ga	. 120	64
Spartan Mills, S. C.	. 111	115
Tucapau Mills, S. C.	. 260	
Toxaway Mills, S. C., Union-Buffalo Mills, S.		72
C., 1st pfd		45
Union-Buffalo Mills, S		40
2nd pfd Victor Mfg. Co., S. C		10
Ware Shoals Mfg. Co., S	1.	
Warren Mfg. Co., S. C	. 80	80
Warren Mfg. Co., pfd.,	. 100	
Watts Mills, S. C		70
Williamston Mills, S. C. Woodruff C. Mills, S. C. Woodride C. Mills, S. C.	i. 115 i. 95	
Woodside C Mille Q C		

C., preferred 90 Woodside C. Mills, S. C. ...

Personal Items

Malcolm N. Fleming has resigned as manager of the Columbus (Ga.) plant of the Bibb Mfg. Co.

- J. O. Benton has resigned as overseer of spinning at the Gainesville (Ga.) Cotton Mills.
- G. O. Coble has resigned as manager of the Pomona Mills, Greensboro, N. C.
- M. D. Gilfillan of Atlanta, Ga., is now filling a position as second hand at the Dixie Mills, LaGrange, Ga.
- E. T. Cannon, of Concord, N. C. was operated upon at Richmond last week for appendicitis and is reported as doing well.
- John R. Hipp, of Catechee, S. C. has accepted the position of second hand in cloth room at the Poe Mill Greenville, S. C.
- J. J. Bates, formerly of Union, S. C., has accepted the position of overseer of spinning at the Gaines-ville (Ga.) Cotton Mill.
- C. P. Deal, manager of the Deep River Mills, Randleman, N. C., has become manager of the Pomona Mills, Greensboro, N. C.
- D. H. Garrett of Asheville, N. C. has accepted a position in the beaming room of the Locke Mills, Concord N. C.
- W. E. Creswell has resigned as Southern representative of the Sterling Ring Traveler Co. to become superintendent of the Gainesville (Ga.) Cotton Mills.
- T. E. Penley, night overeser of carding and spinning at the Dudley Shoals Mfg. Co., Garnite Falls, N. C. has been transferred to another position in the mill.

Weston Revels has resigned his position in the card room at the Eureka Mills, Chester, S. C., to become machinist at the Wylie Mill, of the same place.

- W. H. Williams has resigned as second hand in No. 1 weave room at the Roanoke Mills, Roanoke Rapids N. C., to accept a simlar position at the Erwin Mills, West Durham, N
- R. B. Riddle, who recently resigned as overseer of spinning at the Brookford (N. C.) Mills, was married on the 22nd to Miss Saville Owings of Columbia, S. C., and will engage in the real estate business in that city.
- J. E. Norwood after 23 years of faithful service for the Randleman (N. C.) Mfg. Co. and its successor the Deep River Mills, in the baling department, has resigned his position and has accepted a position at the Wenona Cotton Mills at Lexington, N. C.

Hurt in Card Room.

Mr. Moore, an employee of the Harris Manufacturing, Co., Rock Hill, S. C., had the misfortune to get



Our Spinning Rings SINGLE OR DOUBLE FLANGE

START EASIEST, RUN SMOOTHEST, WEAR LONGEST

Pawtucket Spinning Ring Co.

Automatic Sprinklers Paid for Themselves in Five Years

A prominent foundry was paying \$1200 a year for \$100,000 insurance. It was then equipped with



The total cost of the equipment was about \$4900. The insurance premium was then cut to \$200 per year. The saving of \$1000 paid for the equipment in five years, after which the saving still continued as *clear gain*.

This instance is typical. Perhaps we can do the same for you. It will cost you nothing to find out.

Write us today.

Our little book Automatic Fire Protection will be sent you on request. It shows the "how" and the "why"—how the automatic sprinkler makes a bad fire impossible, and why the insurance companies reduce premiums where it is on guard.

General Fire Extinguisher Company

PROVIDENCE, R. I., AND PRINCIPAL CITIES

Steam and Hot Water Heating and Power Piping Systems

40-11

SOLUBLE SIZING TALLOW



HIS PREPARATION is simply raw beef tallow made soluble. In view of the fact that raw tallow will not dissolve and hence does not combine with starches, we herein offer an article that avoids these objectionable features. Soluble Sizing Tallow dissolves and combines readily with all starches and acts

as a most valuable softening agent. Users of this article will avoid the danger of mildewed warps and also the disagreeable odor of Raw Tallow in the goods. In short, an excellent softening agent.

ARABOL MANUFACTURING CO.

100 William Street, New York

CAMERON MacRAE Southern Sales Agent CHARLOTTE, N. C.

one of his hands caught in the card room machinery and was badly hurt. He was carried to the hospital for treatment.

Gilbert & Smith.

The business of the Corn Products Refining Company is now being handled at Greenville, S. C., by the firm of Gilbert & Smith (successor to Gilbert & Guion). They have an office in the Wallace Building with Roger K. Gilbert in charge assisted by Albert Smith and J. R. White both of whom lately came form the New York office.

Fight May Have Fatal Ending.

J. W. Cameron, a loom fixer in the Wallace Mill, Jonesville, S. C., was severely cut by Otto Kirby, a weaver. The cause of the trouble was a trivial matter. Dr. H. T. Hames, the attending physician, does not think that the victim will survive his wounds. Kirby has been carried to jail. Both men had good reputations..

Cuting Affair at Lindale.

Chas. Coats, of the Massacusetts Mills, Lindale, Ga., and Maynard Neal engaged in a personal encounter Sunday, and in less time than it takes to tell it, Neal got in some very effective work with his knife Coats was slashed down the face, leaving a gash from the top of his forehead to the neck. It was necessary for Dr. Methvin, who attended the young man, to take 18 stitches Nel was arrested. It has been only a short time since he was fined for cutting an employee in the spinning room.

Inventor Has Two Wives.

J. D. McCloud, who claims to be an inventor of cotton mill machinery, was arrested in Atlanta, Ga., last week, on the charge of bigamy He had applied to an Atlanta lodge of a secret order to which he belongs for a loan and when the lodge investigated through his home lodge in Boston, it was found, the police say, that he has a wife living in Boston, in destitute circumstances.

McCloud was married in Walhalla, S. C., last November, to Miss Essie Pool. He denies that he has a wife in Boston, but will have to stand trial for bigimy.

Shoots at Officer and Kills Husband

Angered at the arrest of herself and husband for disturbing the peace of the Harriet Cotton Mill village, Henderson, N. C., Mrs. Chas Snyder last week shot a deputy through the shoulder and was firing upon him again, when the deputy threw himself behind Snyder and her second bullet pierced the heart of her husband, killing him instantly.

It seems that Snyder and his wife in an intoxicated condition were riding through the streets of the village, firing pistols. A deputy sheriff was sent to arrest the couple, with the result that Snyder was killed by his wife, as stated above.

Want Department

Want Advertisements.

If you are needing men for any position or have second hand machinery, etc., to sell, the want columns of the Southern Textile Bulletin afford a good medium for advertising the fact.

Advertisements placed with us reach all the mills.

Employment Bureau.

The Employment Bureau is a feature of the Southern Textile Bulletin and we have better facilities for palcing men in Southern mills than any other journal.

The cost of joining our employment bureau is only \$1.00 and there is no other cost unless a position is secured, in which case a reasonable fee is charged.

we do not gurantee to place
every man who joins our employment bureau, but we do give them
the best service of any employment
bureau connected with the Southern textile industry.

WANT position as overseer of card
room. Prefer a North or South
Carolina mill. Now employed but
wish to change. Experienced and
can furnish good references. Ad-

Help Wanted.

Summerville Cotton Mills want spinners, spoolers, doffers and weavers for night work. We expect to start our mill running nights some time near February ist, and will want full set of help. Apply to E. Montgomery, Supt., Summerville, Ga.

Wanted.

Wet twister, 160 spindles.

3½ inch ring

Creel for 4-ply or 5-ply

7 inch ifft.

State general condition and price per st ndle. Address No. 1021, care The Southern Textile Bulletin.

Loom Fixer Wanted.

Want a first class loom fixer on Stafford automatics, A good position for a hustler in North Carolina mill.

Address No. 1023.

A Few Families Wanted.

Wanted—A few families with spinners, spoolers and doffers. Also card room hedp and weavers. A good healthy place to live and growing little town. Living as cheap as anywhere. Address Box 277, Roanoke Rapids, N. C.

Wanted.

WANT a boss weaver for small room on plain sheetings. Automatic looms, mill in North Carolna. Must be sober, able to keep help and get production. Address No. 1024, care So. Textile Bulletin.

WANT position as superintendent of medium size mill or carder and spinner in large mill. Am now employed as carder and spinner in 10,000-spindle mill, but would accept better position. Practical experience, and have taken Scranton, Pa., textile course. Address No. 276.

WANT position as superintendent of small mill or overseer of weaving in large mill. Now employed but prefer to change about first of year. Ten years' experience as overseer. Can furnish best of references. Address No. 277.

WANT position as overseer of spinning at not less than \$2.75 per day. Have had long experience and now employed. Good reference. Address No. 278.

WANT position as overseer of card room. Prefer a North or South Carolina mill. Now employed but wish to change. Experienced and can furnish good references. Address No. 279.

WANT position as cloth room overseer. Now employed, but can change on short notice. Experienced and change on short notice.

WANT position as carder and spinner or superintendent of yarn mill. Will not accept less than \$3.00 per day. Have long experience and can furnish best of references. Address No. 280.

WANT position as overseer spinning married, strictly sober. Practical as well as technical man. 14 years experience in carding and spinning. Now employed in room of 32,000 spindles could change on short notice, No. 281.

WANT position as superintendent Now employed but wish to change. Have had good experience on both white and colored goods and can furnish satisfactory references. Address No. 282.

WANT position as superintendent of sheet and pillow-case factory or assistant superintendent of bleaching of both. Can furnish good references No. 284.

Want position as superintendent or superintendent and manager of either yarn or plain cloth mill. Now running a hosiery yarn mill Competent and reliable, Can invest some capital in good proposition. Address No. 285.

WANT position as carder and spinner on night or day run. Have filled present position as carder and spinner for five years. Can furnish good references and get quality and quantity. Address No. 286.

WANT position as superintendent or overseer of spinning in large mill. Experience on both long and short staples and yarns from 2's to 100's. Now employed. Good references. Address No. 287.

WANT position as superintendent, experienced in both weave and yarn mills. Have held present position as superintendent for five years. Middle age man, strictly sober and know how to get results. Would like take stock in new mill. Present employers as reference. Address No. 288.

WANT position as overseer of carding or overseer of spinning or carder and spinner. 14 years' experience as overseer. Can furnish best of references. Address No. 289.

WANT position as overseer weaving. Experienced on both white and colored work, checks and dobby. Have been overseer for years. Married. Good references Address No. 290.

WANT position as overseer of weaving at not less than \$3.00 per day. Good references as to ability, character and qualifications to manage help. Have completed a course with the International School of Corresponence on weaving. Now employed. Address No. 291.

WANT position as cloth room overseer. Now employed, but can change on short notice. Experienced on white goods. Can do my own fixing when necessary. Best of references. Prefer position ir N. C. or S. C., at not less than \$2.00 per day. Address No. 292.

WANT position as superintendent in spinning or weave mill. Have had long experience as overseer of carding and spinning. Seven

years as superintendent. Five years with present mill as superintendent. Do not drink and car give good references. Can change on 30 days' notice. Will only change for better salary. Address No. 293.

WANT position as superintendent or assistant superintendent or carder in a large mill. Consider nothing less than \$4.00 per day Larger salary only reason for changing. Now carder and as sistant superintendent. Six year with same mill. Can give good references. Address No. 294.

WANT position as overseer of carding. 24 years' experience in mill work and am now overseer of carding. 32 years old. Married. Good recommendations. Can change on short notice. Address No. 295.

WANT position as overseer of spinning. Seven years' experience as overseer on 6°: to 50's yarn. Can furnish satisfactory references. Address No. 296.

WANT position as overseer of spinning at not less than \$3.00 per day Have had long experience and can furnish good references. Address No. 297.

WANT position as superintendent. 12 years' as overseer of weaving

PATENTS

Trade marks and Copyrights

Send your business direct to Wash ington. Saves time and insure better service.

Personal Attention Guaranteed
30 Years Active Service

SIGGERS & SIGGERS

Patent Lawyers

Suite 34 N. U. Bldg. Washington, D.C.

and assistant superintendent. Capable and qualified to run a room successfully. Can jurnish excellent references. Address No. 298.

WANT position as engineer and master mechanic. 23 years' expeperience. Strictly sober. Good references from present and past employers. Have family of spinners and doffers. Have seldom changed positions. Address No. 299.

WANT position as superintendent or carder and spinner in a large mill. Have had long experience in both positions and can furnish good references from all employers. Address No. 300.

WANT position as overseer of weaving. Now employed but can change on short notice. Have handled large rooms successfully. Good references. Address No. 301.

WANTED—Position of superintendent or manager by one who is fully competent and can come well recommended by present and past employers. 40 years old; married and of temperate habits; my experience extends over a period of twenty years. Correspondence confidential. Address No. 302.

WANT position as superintendent of large weaving mill. Now employed and giving satisfaction but wish larger job. Have always made good and can show results. Good references. Address No. 303.

WANT position as overseer of carding. 28 years of age. Have had 8 years experience as second hand and can furnish best of references. Can change on short notice. Address No. 304.

WANT position as overseer of carding. Have been employed as second hand in 25,000-spindle mill for 9 years and can furnish good references as to ability and character. Address No. 305.

WANT position as superintendent. Have been employed as carder in some of the largest mills in the South and given satisfaction but wish position as superintendent. Now employed. Good references. Address No. 306.

(Continued on next page)

WANT position as superintendent. Five years experience as over-seer, 2 years as superintendent. Experienced on both colored and white goods. Married. Good references. Address No. 307.

WANT position as overseer of carding. Am married man. Sober and am now employed. Have a textile diploma and can furnish best of references. Can come at once.

WANT position soverseer of weaving and cloth room. Experienced on plain and fancy, white and colored goods. Now employed, but want larger job. Good references will be furnished. Address No. 309

WANT position as superintendent of yarn or weave mill at not less than \$1,500. Am now employed and can furnish satisfactory references from present and former employers. Address No. 310.

WANT position as carder in large mill or superintendent of small mill on hosiery yarns. Now em-ployed and giving satisfaction but wish to change. Good references Address No. 311.

WANT position as overseer of weaving, on plain, fancy or colored goods. 12 years' experience as overseer and can furnish good references. Address No. 312.

WANT position as overseer of weav-Have had experience both Draper and plain looms, but prefer Draper room. Have had experience on sheetings, drills and sateens. Have finished a correspondence course on warp preparation and plain weaving. Am good manager of help. Address No. 313.

WANT position as overseer of earding and spinning, at not less than \$4.00. Have had long experience and can give satisfaction Good references. Address No. 314

WANT position as roller coverer. 10 Satisfaction experience. guaranteed. Consider nothing less than \$2.25 per day. Gences, Address No. 515. Good refer-

WANT position as overseer of carding or good second hand job. Ar textile graduate and a first-class cotton grader with several years' experience. Good references. Address No. 316.

WANT position as overseer carding at not less than \$3.00 per day Long experience and best of references. Address No. 317.

WANT position as chief engineer and master mechanic. Good references. Address No. 318.

WANT position as superintendent of medium size mill or overseer of weaving on plains and fancies Prefer room containing Draper looms. Now employed, but wish

to change on account of local conditions. Can change on short notice. Good references. Ad-

WANT position as overseer of spin-ning or carder and spinner, Married. 4 years' experience as overseer and 13 years in mill. Have taken textile course. Good reference from present and past employers. Strictly temperate. Know how to get production at reasonable cost. Address No. 320.

WANT position as overseer carding at \$4.00 per day in Alabama or Georgia. Long experience. Best references. Address No. 321.

WANT position as overseer carding or superintendent of cloth yarn mill, or would travel for good concern. Long experience and best references as to character and ability. Address No. 322.

WANT position as overseer weav-23 years experience. Have run large rooms in S. C. Age 45. references. Prefer room Good with Draper looms, Address No.

WANT position as engineer and machinist. 25 years experience and can furnish good references both as to character and ability. Can change on short notice. Address No. 324.

position as superintendent of either yarn or weaving mill. Experienced on almost all classes of work, both white and colored Now employed. Good references Address No. 325.

WANT position as cloth room overat not less than \$2.50. Married and have family of mill help. 12 years experience on sheetings, drilis, saleens and fancies. Good references. Address No. 326.

WANT position as overseer of carding. Seven years experience a overseer on both white and colored, 10's to 60's, Married. Experienced on combers. Good references. Address No. 327. .

WANT position as superintendent or overseer of large weave room Two years as superintendent. Seven years as overseer of weaving Married. Experienced on plain and fancy and colored goods. Address No. 328.

WANT position as overseer of carding. Married. Age 25. Strictly so-Good habits. Experienced ber. on both white and colored card-Good references. Address No. 330.

WANT position as superintendent of small mill or carder in large mill. Prefer mill on hosiery yarus. Have had long experience. Married. Age 37. references. Address No. 331.

WANT position as master mechanic. Now employed. Have had 20 WANT position as superintendent years experience and can furnish

GRADE MILL BRUSHES HIGH



Special Brushes Made to Order

All Kinds of Brushes Repaired

D. D. FELTON BRUSH CO. ATLANTA, GA.

W. H. MONTY, Pres. and Treas.
HARRIE L. FALES, Secretary W. H. HUTCHINS, Vice-Pres

THE FIRST AND ORIGINAL

Southern Spindle and Flyer Company

Manufacturers, Overhaulers and Repairers of

COTTON MILL MACHINERY

CHARLOTTE, N. C.

WE OVERHAUL-Pickers, Cards, Drawings, Fly Frames, Spinning Frames, Spoolers, Warpers and Twisters.

WE MANUFACTURE—Steel Rolls, Pressers, Card Room Spindles, Whirl Spindle Steps, Lifting Rods, Collars, Bushings, Top Rolls, Doffer Comh Bars Cylinder Heads, Etc.

WE REPAIR-Steel Rolls, Card Room Spindles, Flyers, Spinning Spindles, Etc

WE ALIGN AND LEVEL SHAFTING WITH A KINKEAD OUTFIT

Shirt Factory Manager Wanted

If you are thoroughly experienced in all branches of the shirt manufacturing business and can invest from \$1,500 to \$2,000, there is an excellent opening awaiting you in a rapidly growing, healthful northwestern Tennessee town, on the main line of the

SOUTHERN RAILWAY.

The necessary additional capital to start the factory would be furnished by local parties while other liberal inducements would be extended.

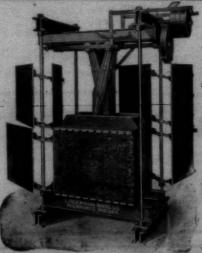
Promising markets are offered by numerous nearby cities, all favorably inclined toward patronizing home industries. Full particulars by referring to File No. 22940 and writing

M. V. RICHARDS

Land and Industrial Agent Southern Railway

Room J

WASHINGTON, D. C.



Hydraulic Baling Presses

The most modern, powerful, edical and rapid system known. Our machines give greatest compression with least power. Investigate

We build over fifty different styles Hand, Belt, Electric.

Logemann Brothers Co.

303 Oregon St., Milwaukee, Wis.

Southern Representative:

J. H. MAYES, Charlotte, N. C

best of references. Address No.

or will take carding and spinning

in large mill. Can change on short notice. Good references both as to character and ability Address No .332 .

CLASSIFIED LIST OF ADVERTISERS

ARCHITECTS Stuart W. Cramer.

AUTOMATIC BANDING MACHINES Cole Bros

BALING PRESSES-

Boomer and Boschert Press Co. Logemann Bros. Co.

REAMERS.

T. C. Entwistle Co.

BELTING

American Supply Co. Bradford Belting Co. Byrd Textile Machinery & Sup. Co. Charlotte Supply Co. J. E. Rhoads & Sons.

BOBBINS AND SPOOLS-

American Supply Co. Byrd Textile Machinery & Sup. Co. Charlotte Supply Co. Draper Co.

BOILERS-

Dillon Steam Boiler Works.

BRUSHES

Felton (D. D.) Brush Co. Mason Brush Works.

CARD CLOTHING-W. H. Bigelow.

Jos. Sykes Bros. CARBONIZING MACHINES-

C. G. Sargents Sons Corp.

CARDS-

Mason Machine Works. Potter & Johnson Co. Whitin Machine Works. Saco-Lowell Shops.

CLOTH ROOM MACHINERY—

Stuart W. Cramer

Woonsocket Machine & Press Co.

COMBERS

Whitin Machine Works.

COMMISSION MERCHANTS-Grinnell Willis & Co. Richard A. Blythe.

DOBBIES

Mason Machine Works. Kilburn, Lincoln & Co. The Stafford Company.

DRAWING FRAMES-

Mason Machine Works. Saco-Lowell Shops Woonsocket Machine & Press Co. Whitin Machine Works.

DRAWING ROLLS-

Metallic Drawing Roll Company.

DYESTUFFS AND CHEMICALS-

American Dyewood Co. Arabol Mfg. Co. Bosson and Lane. Danker & Marston. Faberwerke-Hoechst Co. Kalle & Co. A. Klipstein & Co. Seydel Manufacturing Co.

EING, DRYING, BLEACHIN AND FINISHING MACHINERY BLEACHING DYEING.

C. G. Sargents Sons. H. W. Butterworth & Sons Co. Psarski Dyeing Machine Co. Saco-Lowell Shops.

ENGINEERS

Stuart W. Cramer.

FIRE HOSE AND FITTINGS-American Supply Co. Byrd Textile Machinery & Sup. Co.

Charlotte Supply Co. HUMIDIFIERS

American Moistening Co. Stuart W. Cramer. G. M. Parks Co.

HUMIDIFYING MACHINES-C. G. Sargents Sons Corp.

KNOTTERS-

Byrd Mfg. Co.

LOOMS

Crompton & Knowles Loom Works RING TRAVELERS-Draper Co. Kilburn, Lincoln Co. Mason Machine Works. Saco-Lowell Shops. Stafford Co.

Whitin Machine Works. LOOM HARNESS, REEDS AND PICKERS

American Supply Co. Byrd Textile Machinery & Sup. Co. Charlotte Supply Co. Garland Mfg. Co.

LUBRICANTS

N. Y. & N. J. Lubricant Co.

LUG STRAPS

Byrd Textile Machinery & Sup. Co.

MILL CRAYONS-

American Supply Co.

Byrd Textile Machinery & Sup. Co.

SHAMBOW Shuttle Co
SHZING COMPOUND— Charlotte Supply Co.

MILL SUPPLIES

American Supply Co. Byrd Textile Machinery & Sup. Co. Charlotte Supply Co.

NAPPING MACHINERY— Stuart W. Cramer.

OVERHAULERS-

Dixie Spindle & Flyer Co. Southern Spindle & Flyer Co.

PICKERS AND LAPPERS-Kitson Machine Co. Potter & Johnson Co. Saco-Lowell Shops

POWER TRANSMISSION MACHIN- SPINNING RINGS

Stuart W. Cramer.

Woonsocket Machine & Press Co.

PREPARATORY MACHINERY—

Kitson Machine Co. Fales & Jenks Machine Co. Potter & Johnson Co.

PRESSES-

Boomer and Boschert Press Co. Logemann Bros. Co.

PUMPS-

Stuart W. Cramer.

QUILLERS

Whitin Machine Works. RAILROADS Seaboard Air Line.

Southern Railway. RING SPINNING FRAMES Fales & Jenks Machine Co. Mason Machine Works.

Whitin Machine Works.

American Supply Co. Byrd Textile Machinery & Sup. Co. Charlotte Supply Co. Ring Traveler Co. U. S. Ring Traveler Co.

ROLLS

Metallic Drawing Roll Co. Saco-Lowell Shops

ROVING MACHINERY-Saco-Lowell Shops, Woonsocket Machine & Press Co. Whitin Machine Works.

SADDLES

Dixon Lubricating Saddle Co.

SEPARATORS-Draper Co.

SHUTTLES-

Shambow Shuttle Co. Arabol Mrg. Co. Saco-Low Byrd Textile Machinery & Sup. Co. WILLOWS-Danker & Marston. A. Klipstein & Co. Seydel Mfg. Co.

SLASHERS-

Stuart W. Cramer.

SOFTENERS—COTTON— Arabol Mfg. Co. New Brunswick Chemical Co. A. Klipstein & Co.

SPINDLES

Draper Co. Easton & Burnham Co.

Draper Co. Whitinsville Spinning Ring Co. Pawtucket Spinning Ring Co.

SPOOLERS-

Easton & Burnham Co. Draper Co. Whitin Machine Works. Saco-Lowell Shops

SPRINKLER SYSTEMS

Gen'l Fire Extinguisher Co.

Byrd Textile Machinery & Sup. Co.

STEAM ENGINES-

Stuart W. Carmer.

STEAM SPECIALTIES-Byrd Textile Machinery & Sup. Co. Charlotte Supply Co.

TEMPLES-

Draper Co.

TWISTERS-Collins Bros.

Draper Co. Fales & Jenks Machine Co. Saco-Lowell Shops.

WARP STOP MOTIONS

Crompton & Knowles Loom Works Draper Co.

The Stafford Co.
WEIGHTING COMPOUNDS—

Arabol Mfg. Co. Byrd Textile Machinery & Sup. Co. Bosson & Lane. Faberwerke-Hoechst Co. Danker & Marston. A. Klipstein & Co. Seydel Mfg. Co.

WARPERS

Stuart W. Carmer. Draper Co. T. C. Entwistle Co. Saco-Lowell Shops.

C. G. Sargents Sons Corp.

WINDERS-

Easton & Burnham Co. Stuart W. Cramer. Saco-Lowell Shops.

Joseph Sykes Brothers, P. O. Box 88 Bell Phone 404

CARD CLOTHING MANUFACTURERS

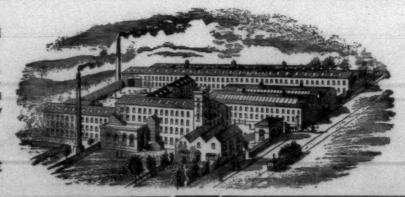
Hardened and Tempered Steel Wire Plow Ground Card Clothing

Revolving Top Flats Reclothed with our own Patent Steel Clip. Competent men to Clothe or Redraw Fillets. Licker-ins Rewound. Burnisher and Stripper Fillets, Dronsfield's Grinder Roller and Emery Fillets. Regular sizes of Card Clothing always in stock and Shipped same Day Order is Received.

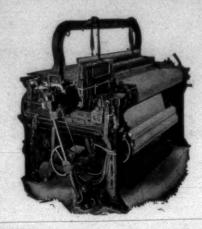
OFFICE AND FACTORY-4th FLOOR COMPKINS BUILDING

R. D. THO MAS, Southern Agent

CHARLOTTE, N. C.



"IDEAL" AUTOMATIC LOOMS



Unsurpassed in Simplicity, Durability and other Desirable Qualities. No special mill supplies required. They make less waste than any other loom.

They Produce Superior Cloth

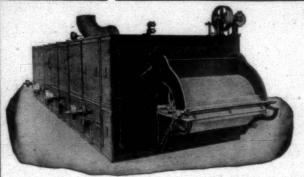
We invite correspondence and investigation

THE STAFFORD COMPANY

READVILLE, MASS.

FRED H. WHITE, Southern Agent

Realty Building, Charlotte, N. C.



Fireproof
Iron and Steel
Asbestos Insulated
DRYERS

C. G. Surgent Sons Corp. Graniteville, Mass.

A. H. Washburn Charlotte, N. C.



You "Otto" cut that light "Bill"--HOW?

By installing an OTTO Gasoline Engine and Generator.

The Charlotte Supply Company Representatives CHARLOTTE, N. C.

Southern Textile Bulletin

DAVID CLARK, Editor

A weekly publication devoted exclusively to the textile industry of the South. It reaches not only the mill office, but the superintendents, overseers and master mechanics

SUBSCRIPTION \$1.00 PER YEAR

ADVERTISING RATES REASONABLE

H. W. Butterworth & Sons Co. PHILADELPHI, PA.

BUILDERS OF MODERN

Bleaching, Dyeing, Drying, Finishing and Mercerizing Machinery

THE HIGHEST STANDARD BOTH IN DESIGN AND CONSTRUCTION

ESTIMATES FURNISHED

CORRESPONDENCE SOLICITED

A. H. WASHBURN, Southern Agent

Suite 800-806 Realty Building CHARLOTTE, NORTH CAROLINA

We carry a full line of General Supplies and make a specialty of equipping new mills

WE MANUFACTURE

Oak Tanned Leather Loom Harness,
Belting. Weaving Reeds

AMERICAN SUPPLY COMPANY PROVIDENCE, R. I.

MARCUS A. DARY
Agent and Treasurer

FRED H. DARY Superintendent

DARY RING TRAVELER COMPANY







Manufacturers of High Grade

SPINNING AND TWISTING TRAVELERS
TAUNTON, MASSACHUSETTS

Southern Representative - JOHN E. HUMPHRIES - Walhalla, S. C.